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No. 2208

MAY 20, 1922.

VOL. XCVI.

EVANS

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LIVERPOOL NEW YORK LONDON

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THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches,
nausea, vertigo, or syncope. :: :: *Literature on demand.*

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able from the sole British Agents.

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Graesser-Monsanto Chemical Works,
LIMITED,

RUABON, N. WALES.

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**DO YOUR GUMS
BLEED? If so use**

**PYORRHOEA
PASTE**

as a dentifrice and do not
let Pyorrhoea undermine
your health. It is a powerful
antiseptic and is specially
prepared for tender, bleeding
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Per **1½** Tube

Is **YOUR** mouth sweet and clear

THE IDEAL REMEDY for PYORRHOEA

It is a reliable and effective preparation and can be
recommended to customers suffering from inflamed,
bleeding or spongy gums with every confidence.

Per **7/-** Doz.

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PROFIT TO THE CHEMIST**

Name and address on 6 dozen
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Carriage paid on orders for £3.

Are you fixed for a Health Saline this Season ?

IF NOT, WRITE FOR A SAMPLE OF

DR. WOOD'S HEALTH SALINE

IN SMARTLY LITHOGRAPHED
ROUND LEVER-LID TINS.

GREAT care has been taken in the
compilation of the formula, and the
result is a product in every way satisfactory.

The effervescence is prolonged yet animated ;
the flavour is pleasant, leaving a slightly
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HANDSOME SHOW MATERIAL PROVIDED.

6/9 doz. ; gross lots **78/-**

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Manufacturing Chemists

BRIGHTON ENGLAND



TRADE MARK

Established 1839.

Tetlow's "SWANDOWN"

There are 11 DAYS left in which you will be able to take advantage of our BONUS Offer.

Bonus distribution will positively cease on May 31st.

If you have already ordered, have you ordered enough?

If you have not ordered, do not delay; such an unique opportunity of securing enhanced profits on a staple line such as "SWANDOWN" does not often occur.

All you have to do is to display
"SWANDOWN" and a Showcard
in your window. Our Advertising
and the Public do the rest.

THINK WHAT THIS MEANS:

Our Sales in 4 weeks—

2,322 gross = 334,368 boxes

Before May 31st we shall pass the

HALF MILLION.

SOLE
AGENTS:

HENRY C. QUELCH & CO.
HENRY TETLOW CO.

Tetlow's "SWANDOWN"

Study Carefully Our Three Offers.

OFFER NUMBER 1.

Sells for 1/- P.A.T.A.

2 gross "SWANDOWN" at 96/- gross	£	s.	d.	£	s.	d.
	9	12	0	14	8	0
For Window Display						
2 doz. "SWANDOWN" FREE				1	4	0
200 Samples Free. 4 Showcards.						
5 % Discount... ..			9	7		
	£9	2	5	15	12	0
Costs ...				9	2	5
Profit (71 %)				£6	9	7

OFFER NUMBER 2.

Sells for 1/- P.A.T.A.

1 gross "SWANDOWN" at 96/- gross	£	s.	d.	£	s.	d.
	4	16	0	7	4	0
For Window Display.						
1 dozen "SWANDOWN" FREE				12	0	
100 Samples Free. 2 Showcards.						
2½ % Discount			2	4		
	£4	13	8	7	16	0
Costs ...				4	13	8
Profit (66 %)				£3	2	4

OFFER NUMBER 3.

Sells for 1/- P.A.T.A.

6 doz. "SWANDOWN" at 8/- doz.	£	s.	d.	£	s.	d.
	2	8	0	3	12	0
For Window Display.						
½-dozen "SWANDOWN" FREE				6	0	
50 Samples Free. 2 Showcards.						
	£2	8	0	3	18	0
Costs ...				2	8	0
Profit (62½ %)				£1	10	0

The above Bonus offers can be obtained
from any Wholesale House in Great
Britain or Ireland.

4 & 5 Ludgate Sq., London, E.C.4
PHILADELPHIA

**Your Customers Will
Ask You For
"Ven-Yusa Unscented"
or "Ven-Yusa Scented"**



This distinctive seal in Gold is on all "Ven-Yusa Scented" Cartons.



This distinctive seal in Blue is on all "Ven-Yusa Unscented" Cartons.

This non-greasy oxygen cream is now prepared in scented and unscented form—both identical in quality but just varied to please the different fancy.

"Ven-Yusa Unscented" appeals to all who like an unperfumed yet choice and superior cosmetic. It is delightfully fresh and agreeable to the skin.

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**DAINTY OPAL JARS &
ALUMINIUM SCREW CAPS.**

Reduced Price of 1/3 per Jar.

**IF YOU HAVE NOT YET STOCKED "VEN-YUSA UNSCENTED,"
ORDER IMMEDIATELY.**

Profit **33 $\frac{1}{3}$ %** on turn-
over plus Window Show
Allowance of **5%**

**C. E. FULFORD, Ltd.
LEEDS.**

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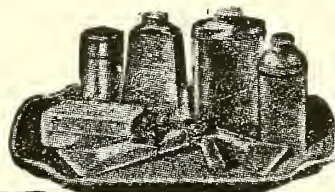
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ENGLISH PATENT No. 137541

NUMEROUS PATENTS THROUGHOUT THE WORLD.

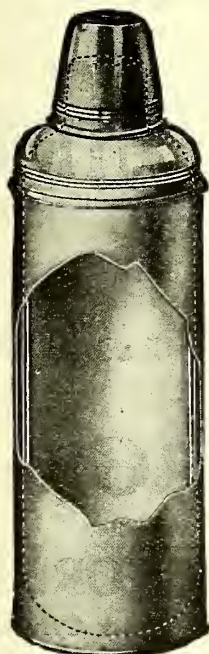
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A REVOLUTION IN VACUUM FLASKS

FAR AND AWAY STRONGER THAN
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ONE STEEL GLASS FLASK WILL
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in
Ordinary Flasks

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Glass Wall
in

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FLASKS.



NOTE THE DIFFERENCE.

UNEQUALLED STRENGTH

Will Stand any amount of Rough Handling

Extra thick glass walls act as a protection not only against knocks and bumps, etc., but enable the flask especially to withstand successfully sudden and abrupt changes of temperatures caused by pouring very hot or very cold liquids into it.

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WORLD'S GREATEST ATMOSPHERIC DISINFECTANT AND FLY SOLUTION

Specially prepared for General Use in the Home and Mansion.
Invaluable to Butchers, Fishmongers, Restaurants. It **DISINFECTS THE AIR** and
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ALSO WAXES & OILS OF EVERY KNOWN KIND & FOR EVERY PURPOSE.

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 (Entrance also between 77 & 79 BISHOPSGATE.)

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**SIMPLEST and EASIEST
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PROMPT DESPATCH
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*The Cheapest and Best
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Supplied OPAQUE OR TRANSPARENT,
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NO SKILL—the boy can do it.
NO blobs, holes, thick or thin sides.
**NO smells, fire risks or losses through
 evaporation.**

Maw's



Page

May 20, 1922.

No. 553.

"Parex"

What it means to the Pharmacist

"Parex" is a registered trade name applied to certain goods—chiefly toilet and manicure preparations—manufactured by the House of Maw.

As "Parex" goods are supplied, like all Maw's goods, to pharmacists only, the word "Parex" may be regarded as the sole property of the pharmacist, and its function is to protect him from outside competition.

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Edition



Calox Has Proven Its Reason for Success



PEOPLE of discrimination, who demand the best, use Calox—the Oxygen Tooth Powder—year after year.

It whitens the teeth, purifies the breath, and renders the mouth as nearly aseptic as it is possible to make it.

You are assured “repeat sales” with Calox. This means increased business and increased profit for you.

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French Depot

Messrs. ROBERTS & CO.
5 Rue de la Paix, Paris

Newfoundland Depot

DIRECT AGENCIES, Ltd., St. Johns

A Few of the McK & R Specialties

McK & R Mosquitone

Keeps mosquitoes away and heals the bites. An efficient repellant in solid form, not sticky nor greasy. Pleasant odor and non-staining. Packed 1 dozen in display box.

McK & R Aspirolithine

A combination of aspirin with acid lithium tartrate and citrate. Very effective for relief of muscular pain, and for rheumatism, neuralgia, sciatica and gout. Prescribed by many leading physicians. In bottles of 50 tablets.

McK & R Milk of Magnesia

In perfect colloidal form, bland and tasteless. Free from soluble salts. 8 and 16 ounce bottles.

McK & R Cold and Grippe Tablets

A wonderfully prompt acting remedy for influenza and grippal colds. Allays the heaviness in the head and the super-secretion of mucus in a few hours. In S. C. bottles of 30 tablets.

We are soliciting inquiries from local agents who are in position to carry adequate stocks and to aid in distributing our well-known proprietary articles.

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Manufacturing Chemists

Established 1833

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"LIVERPOOL VIRUS"

Trade Mark Regd.

Special Announcement

In addition to the Baited or prepared "Liverpool Virus," packed in tins, we can now supply a

LIQUID VIRUS

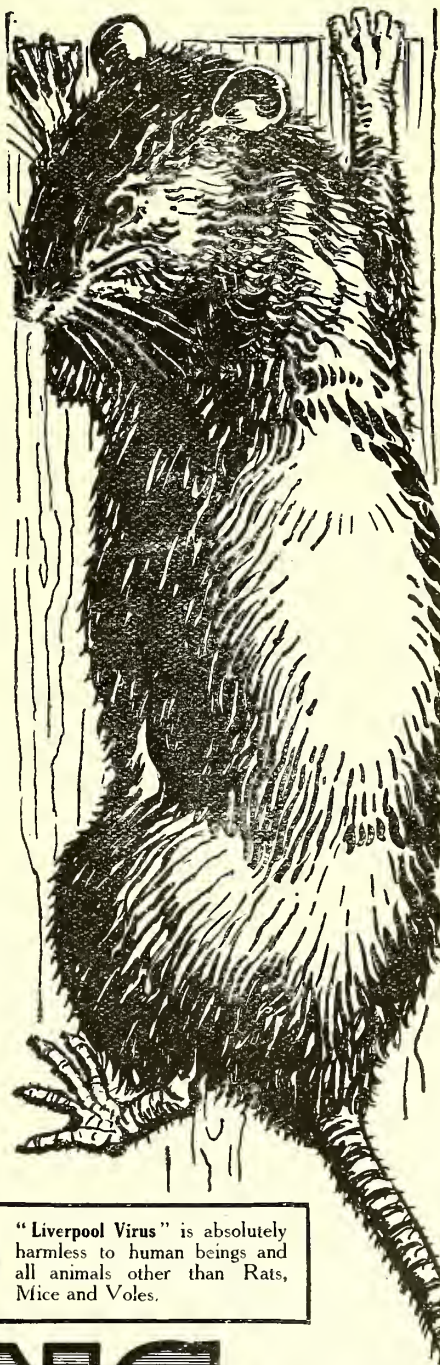
in bottles—which we recommend in preference to the tubes where an un-baited preparation is required.

"Liverpool Virus" is safe, sure and remarkably successful. It is persistently and uniquely advertised and shows a handsome profit—at the half-dozen rate it gives 66% on outlay. Further, it is backed up by 20 years' experience. This experience is offered free for the service of your customers. Literature may be had on application. In cases of unusual difficulty ask for a questionnaire form.

PRICES OF TINS OR BOTTLES

	Retail	Wholesale	Not less than 1/2 dozen
For Rats 2/6	...	1/9 each	...
" 6/-	...	4/9 "	...
For Mice 1/6	...	1/- "	...

Net monthly—Carriage Paid with £5 orders.



"Liverpool Virus" is absolutely harmless to human beings and all animals other than Rats, Mice and Voles.

EVANS

EVANS SONS LESCHER & WEBB, LTD.

LIVERPOOL

New York

LONDON

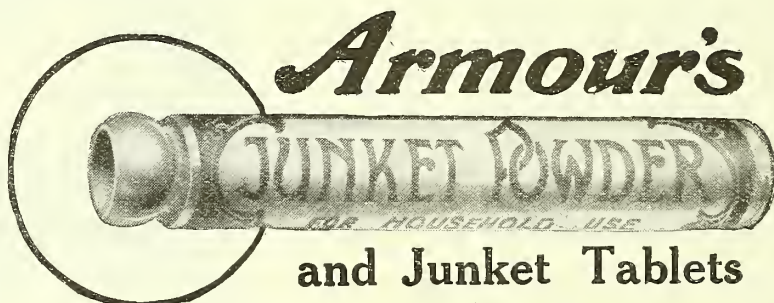
Every Pharmacist

should avail himself of our *Special Bonus Offer* before purchasing his supply of Junket for the coming season.

Until the 31st May, 1922, we offer One Dozen Tubes of either Armour's Junket Powder or Tablets, Free, with every order for six dozen tubes.

NOTE.—Orders sent in for forward delivery up to 31st May will be eligible for the Bonus.

Owing to the long warm Summer of last year, Junket had an unusually large sale, and became a favourite in many homes—so much so that there will again be a strong demand for it this Summer. We recommend every pharmacist to anticipate his requirements and place his orders early.



and Junket Tablets

Show the retailer profits of—

50%

On Powder at 7/- per dozen tubes

75%

On tablets at 6/- per dozen tubes.

Carriage paid on orders for 6 dozen tubes.

Armour's Junket retails at 9d. per tube, P.A.T.A.

ARMOUR AND COMPANY
LIMITED

QUEEN'S HOUSE,

LONDON, W.C. 2.

KINGSWAY,

Telegrams: "Armorum, Westcent, London."

Telephone: Holborn 5900

AYRTON'S WEEKLY

PAGE 15

AYRTON'S LEMONADE TABLETS



make delightfully refreshing lemonade. No sugar required. Quickly prepared. One tablet in a tumbler of cold water produces immediately a sparkling lemonade unrivalled in flavour and aroma.

YOUR PROFITS ARE PROTECTED

Retail (P.A.T.A.)	-	-	-	-	6½d.
Wholesale, per gross	-	-	-	-	54/-

Striking Showcard with orders of 1 gross.

Bonus of 1 dozen with a gross order and your agreement to make a window display for two weeks.

*Best
of its kind!*

**Prepare for the demand by
buying now.**

£5 mixed orders carriage paid.

AYRTON'S THIRST QUENCHERS

Delicious Lemon Circles which melt on the tongue.

	1½d.	3d.	9d.
Per gross - -	12/-	24/-	78/-

AYRTON, SAUNDERS & Co. LTD

Manufacturing Chemists

Hanover Street, LIVERPOOL

Telegrams : "SUNDRIES LIVERPOOL."

The

Trade Mark.
"A1" OLIVE OIL
 (HUILE CÔTE d'AZUR)
Riviera Cream.



THIS Season's Oil is of exceptional bouquet and flavour, and well maintains the high character of the brand.

It is well known by those who are accustomed to purchase the "A1" Brand, that this Oil enjoys a great reputation amongst epicures, who pronounce it to be the sweetest and to have the finest bouquet of any Oil which they have ever tasted.

Salad Recipes by distinguished Chefs are supplied with each bottle, and Dressings made in this way have found great favour and can be strongly recommended.

The "A1" Oil is pressed from the Olives grown in the Riviera under the equable temperature of the Alpes-Maritimes, and the superiority of the brand is manifested by the repeat orders we are continually receiving from customers who give it a trial.

PRICE, IN BULK, 24/- PER GALL.

AND IN

ORIGINAL RINGED GLASS BOTTLES,
 bearing a specially drawn label, in centre of which is an
 Eastern Girl carrying on her head an earthen pitcher—

Reputed Quarter-pints 11/- per doz.
 „ Half-pints ... 19/3 „ „

Reputed Pints 30/- per doz.
 „ Quarts 57/- „

SHOWCARD: "Scenes in Sunny Provence," The Land of the Olive.
 Illustrating the harvesting of the Olives. Free to purchasers on application.

SOUTHALL BROS. & BARCLAY LTD.

Packed Goods Specialists, BIRMINGHAM.



Castols

I am BOBBIE CASTOL

MY sister Cissie and I are the Castol "Mascots." You'll see us in lots of papers like Home Chat, Home Notes, Everywoman's, Weldon's, People's Friend, &c., telling millions of mothers about Castols, the "nice-as-chocolate" substitute for Castor Oil. Above are some of the games we play—just to let people see how healthy and happy we are.

(Castols are sold in 9d. & 1/6 tins and 1 1/2d. packets. Trade, 6/6 & 13/- doz. & 12/- gross.)

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
 & Bardsley House, London, N.1
 ESTABLISHED 1797.

COPYRIGHT

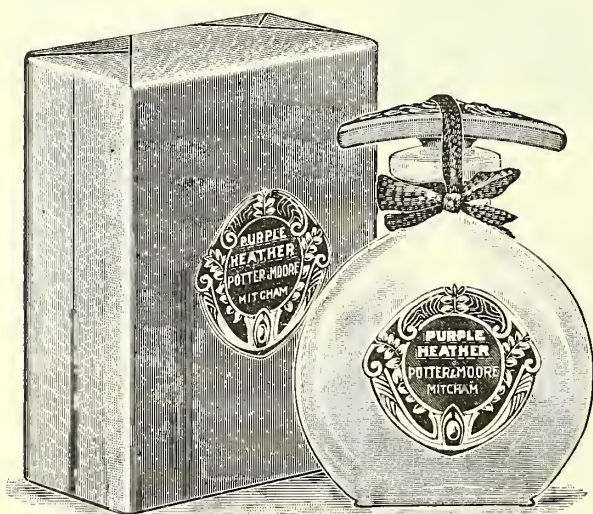
Chemists' Exhibition, 1922

WE beg to announce that we are showing at the forthcoming Chemists' Exhibition, which is to be held at the Central Hall, Westminster, from June 19th to June 23rd inclusive.

We shall be pleased to welcome our friends at STAND "A," where all our latest novelties will be displayed.

POTTER & MOORE'S PURPLE HEATHER

A Perfume of surpassing sweetness and delicacy!



Perfumes made by Potter & Moore are good products.

Write for a small testing sample of "Purple Heather," and judge for yourself.

Packed in four sizes, as illustration.

Prices on Application.

POTTER & MOORE are the makers of the celebrated 1749 MITCHAM LAVENDER WATER, which is known and appreciated throughout the world.

Potter & Moore (Est. 1749), The Lavender Distillery
MITCHAM, SURREY.

SOLE PROPRIETORS—

W. J. Bush & Co., Ltd., Ash Grove, Hackney, E.8

ESTABLISHED 1768.

HYDRATE OF CHLORAL

from Établissements Antoine Chiris—Baus-Roux (France).

ESSENTIAL OILS

from Établissements Antoine Chiris—Grasse (France).

CHEMICALS

from Antoine Chiris Company—(Delawanna Works).

SICILY OILS

from Sté. "Les Hespéridées"—Reggio-Calabria.

MUSK PODS

from the Comptoirs Coloniaux Chiris—Chung-King (China).

BENZOIN GUM, STAR ANISEED OIL

from the Établissements Chiris—Hanoi.

BOIS DE ROSE FEMELLE OILS

from the Comptoirs Coloniaux Chiris—Cayenne.

VANILLA BEANS

from the Établissements Antoine Chiris—St. Denis, Réunion.

TAHITI BEANS

Direct import from Tahiti.

AMERICAN PEPPERMINT OILS

from Antoine Chiris Company—New York.

Directly Imported by—

ANTOINE CHIRIS, LTD.

3 Drapers Gardens, LONDON, E.C.2.

Telep.: Bank 5021. Tel. Add.: "Anchirtoin, Stock, London." Cable Add.: "Anchirtoin, London."

A SUMMER NIGHT

"Like a Garden in the Gloaming"

An Announcement :

In view of the extraordinary success of "A SUMMER NIGHT," the unique perfume we introduced last year, we have decided at the request of many friends to supplement this with

A NEW 2-oz. SIZE

This new size is put up in oval stoppered bottles, each in an attractive upright box, at 60/- per dozen, as illustrated herewith.

The ORIGINAL 1 oz. "SUMMER NIGHT" similarly packed, is available at 36/- per doz. Terms and Testing Samples on Application.

This Unique Perfume is Selling Readily
PRICE'S, BATTERSEA, S.W.11.



TO CREATE SALE YOU MUST OFFER ORIGINALITY AS WELL AS VALUE, QUALITY AND PRICE ! ! ! ! !

We have made the manufacture of !

POWDER PUFFS

our one speciality, and by constantly creating new distinctive models are able to satisfy the most exacting need of feminine vanity.

The fact that many are looking to us for ideas and the steadily increasing demand for our goods are proof that ORIGINALITY as a selling point is worth studying.

ORIGINALITY and INDIVIDUALITY are distinctive features of the Powder Puffs we manufacture, and our prices consistent with quality are most advantageous.

Convince yourself by favouring us with a visit and inspect the wide range we have on show. Our Wholesale and Export Price List is posted free to any wholesaler or shipper or request.

J. R. BOURLAT, GOES & CO.,
22 Prince's Road, HOLLAND PARK, W.11.

NEW PHONE NUMBER: PARK 240.

L. LEICHTNER'S GREASE PAINTS, &c.

Now to be obtained from your
Wholesaler or direct from the

Sole British Agents—

VANITIES LIMITED

15a Whitcomb Street, Pall Mall East, W.C.2.

PRICE LISTS ON APPLICATION.

All lines in stock.

THE EVAN WILLIAMS' EMULSIFIED COCOANUT OIL SHAMPOOS

in liquid form (2 sizes)

in powder form (packets)

They are well up to the Evan Williams' standard of production, sell freely, and give a handsome profit.

Write for "The Shampoo Salesman," which gives full details of all our Preparations.

THE EVAN WILLIAMS CO., LTD., 18 & 18a Ogle Street, LONDON, W.1.

The largest Shampoo Specialists in the world.



In Green Bottles, Registered.

Frozoclone

REGD.

The Original and Best
SOLID EAU DE COLOGNE

has many imitators but no equal.

Its elegance and utility appeal to all.

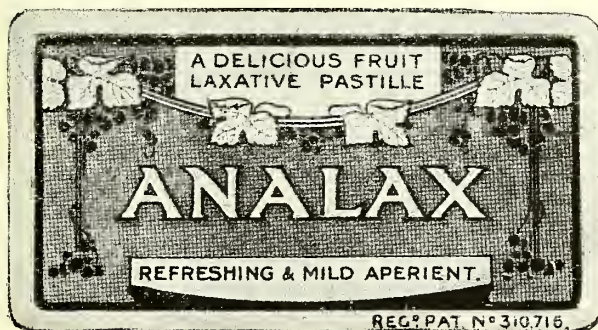
Made from the finest Eau de Cologne. Refreshing when rubbed on the forehead, pleasant as a smelling bottle, invaluable in a heated atmosphere and when travelling. A real acquisition to every household. Excellent after shaving. A boon to those in hospital.

RETAILS AT **3s. 6d.** Minimum (P.A.T.A.) PER DOZEN **32/-**
SPECIAL TERMS FOR BONDED SHIPMENT OF 4 gross minimum.

SOLID ENGLISH LAVENDER

Similar size and packing
 as "FROZOCLONE"
 but in **BLUE** glass.

TERMS AS FOR FROZOCLONE.



THE IDEAL FRUITY LAXATIVE

In Pastille form. Delicious, Reliable, Effective.

Retails at **2s. 3d.** minimum. Per dozen **21/-**

REDUCED PRICES FOR EXPORT.



The Nail Polish

with new and distinctive features.
 Softens the cuticle. Brilliant polish.

Retails **1s. 9d.** Per Dozen **15/-**

R. DEMUTH'S LABORATORIES

68 Salusbury Road, and Montrose Avenue, LONDON, N.W. 6.



TRADE MARK.

The Customers Who Need Forhan's

"A tooth-brush with soft bristles, please." The frequency of this request is tragic indication of the spread of Pyorrhea. The gums are tender, bleed easily when touched with a hard brush—Pyorrhea has begun its deadly work.

These customers urgently need Forhan's For the Gums. Its daily use in conjunction with dental treatment helps to heal tender gums, to keep them firm and healthy.

All your customers will benefit from the regular use of Forhan's. This pleasant dentifrice not only keeps teeth white and clean, but if used in time and consistently, will definitely prevent the approach of Pyorrhea.

Thos. Christy & Co.
4-12 Old Swan Lane,
London, E.C. 4.



"Newberys"

FRANCIS NEWBERY & SONS LTD.

COMPLETE RANGE OF

Packed Pharmaceuticals,
Toilet Preparations,
"Own Name" Packed Goods.

SUNDRIES—

Best British Tooth Brushes,
Hair Brushes, and Shaving
Brushes. Mirrors,
Manicure Requisites, etc.

FRANCIS NEWBERY
& Sons, Ltd.
LONDON & CARDIFF.

REDUCED
PRICE



3/3 PER DOZEN.



MIRROR NAIL STONES

IN THE ORIGINAL
HINGED ALUMINIUM BOXES
IN SHOW BOXES OF 1 DOZEN.
Stocked by ALL LEADING WHOLESALEERS.

MADE ONLY BY
SOLPORT BROTHERS, Ltd.
184-190 Goswell Road,
LONDON . E.C. 1

LINES THAT SHOW GOOD PROFITS



Taylor's CIMOLITE PREPARATIONS

50 YEARS' REPUTATION.

Used in all Royal Nurseries and by the Nobility.

CIMOLITE TOILET POWDER.

Boxes, 1/1½ (per doz. 9/6)
Tins, 3/-, 5/6, 11/- (per doz.
27/-, 49/3, 96/-)
Bottles, 3/3, 6/6 (per doz.
30/-, 55/6)

CIMOLITE TOILET CREAM.

Collapsible tubes, 1/3 (per
doz. 11/6)

CIMOLITE SOAP.

Per tablet, 8d.; per box 2/-
(per doz. 3 tab. boxes, 20/-)

CIMOLITE FACE POWDER.

Boxes, 1/1½ (per doz. 9/6)
Tins, 3/- (per doz. 27/-)
Bottles, 3/3 (per doz. 30/-)

CIMOLITE SOAP (Violet-Scented)

Per tablet, 8d.; per box, 2/-
(per doz. 3-tab. boxes, 20/-).

CIMOLITE SHAVING SOAP.

Sticks, 1/3 (per doz., 11/6)

SHOW CARDS and Counter
Bills on application.

NOW
ON
THE
P.A.T.A.



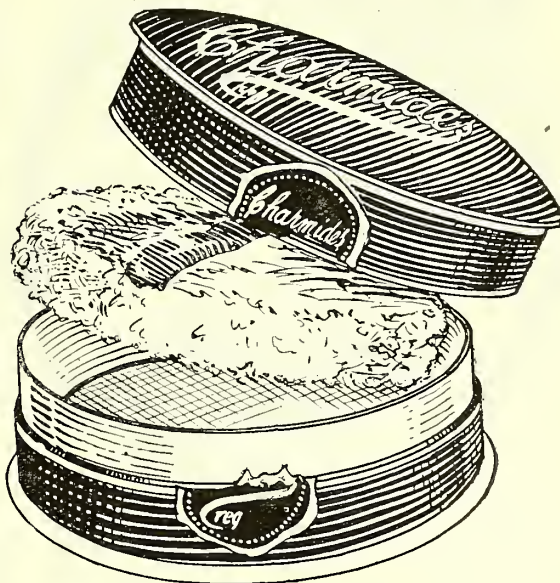
Cimolite Prepara-
tions are stocked
by all wholesale
houses.

ATTRACTIVE SHOW CARD obtainable from
all wholesalers or direct.

PREPARED ONLY BY

JOHN TAYLOR, Manufacturing Chemist
30 BAKER STREET, PORTMAN SQ., LONDON, W.1

"SO DIFFERENT FROM THE ORDINARY."



ESTABLISHED
1890

Charmides
TOILET
SPECIALITIES

Exclusive and Exquisite.

The Dainty New Box of Charmides Face Powder,
with "economiser" and handy little puff (actual size)

RETAIL PRICE 1/6 (1 oz.)

Wholesale 12/- dozen.

GENEROUS TERMS—MORE THAN
33 1/3% off RETAIL. QUICK SELLER

Obtainable from

Barclay & Sons, Ltd., Butler & Crispe, Ltd., Osborne,
Garrett & Co., Ltd., Sangers, Ross, Frank & Co.,
and usual wholesalers.

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere

Established 1883.



"Jackel's Cream"
fixes the hair in any de-
sired position; is un-
excelled as a dressing
and does not soil the
headwear. It removes
Scurf and Dandruff,
keeps the scalp healthy,
and promotes the natu-
ral growth of the hair
while maintaining its
softness and brilliancy.

Prices for Wholesale and Export
Houses on application.

Jackel et Cie (of Paris)

Ltd.,

Sauchiehall Street,
GLASGOW.

CRYSTALLISED
1/9 CREAM 2/6

Trade Mark attached to each
bottle.

"MRS." NEVILLE ROSS

(of Chelsea)

Established 1890.

(Managing Proprietor, EDWARD HYDE),

12 Mandeville Place, LONDON, W.1.



You can depend on steady sales

THE demand for the Sorbo Sponge is now thoroughly established. Week by week the Sorbo Sponge brings you regular profits. And there is endless opportunity for doing fresh business in this profitable line.

Every single person who enters your shop is a possible customer for a Sorbo Sponge.

Just indicate its unique qualities, the very low price, durability, absorbency and softness. Few can resist the wonderful economy of a Sorbo Sponge. If they use a sponge, they need a Sorbo Sponge.

And remember, there's a handsome profit of 33 $\frac{1}{3}$ % for you on every one you sell.

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

Retail Prices: No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-. Bath sizes—No. 4R, 7/6; No. 5, 10/6.

SORBO RUBBER-SPONGE PRODUCTS, LTD.,
24 WALBROOK, LONDON, E.C.4.

Telephone: City 9372. Telegrams: "Osorbeau London."

It's NOW or never.

English TEATS

For Boat-shaped Hygienic Bottles.

BEST Quality English

Plain - 12/-	gross	} net
Ribbed 14/-	"	

CARRIAGE PAID on 1 Gross Teats.

Valves to match, 10/- gross.

Cash with order only.

This offer cannot be repeated.

H. J. LEE & CO., LANCASTER

*Manufacturers of the Tuskoid
and Ambroid Fine Tooth Combs.*

HIGHEST GRADE AUSTRALIAN SANDALWOOD OIL

GUARANTEED NOT UNDER

90%

OPTICAL ROTATION

- 6° to - 10°

Recent Analysis:

Alcohols (as Santalol)	91.3%
Ester Santalol	... 3.2%

Accepted by Australian
Medical authorities as equal
to B.P. Oil for medicinal
purposes.

Distilled by

PLAIMAR LTD., PERTH, WEST AUSTRALIA.

Agents for United Kingdom & Europe:

PLAISTOWE & CO., LTD. KING'S CROSS, LONDON, N.1

DEARBORN LTD

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYMOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
HARAPOSA ...	22/6	2/6
Nut oil shampoo.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	36/-	4/-
For obesity.	58/6	6/6
SOFT PALERIUM...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALE, & DEARBORN (Australia),
Ltd. Grace House, Clarence Street, Sydney.

South Africa: LENNON Ltd. Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.

India: FRAMJEE & SON, Bombay.
SMITH, STANISTREET & CO., Calcutta.

New Zealand: SHARLAND & CO., Auckland & Wellington.

South America: DEARBORN (South America), Ltd., Calla
Salta 264, Buenos Aires.



£500
PRIZES
and usual
Profit on Sales

DON'T give away your profits.

Every saleable package of cream or powder you distribute free means the loss of your legitimate profit on that preparation—and your sale of some other for weeks. The DE LUZY advertising scheme is constructive—

it develops increased sales for the Chemist, and every sale shows the handsome DE LUZY profit.

Moreover, by participating in the DE LUZY Trade Competition, 39 of the

**Chemists who sell De Luzy
will win £500**

—First Prize £100; three of £50; and 35 others.

Send us a postcard for particulars of the DE LUZY Competitions—no obligation. We will forward you the details and Three Coupons by return. Write to-day and so have good time to “think it over” before

Closing Date of Competition,
June 23rd, 1922.

De Luzy
Crème, Poudre
et Parfums
Paris

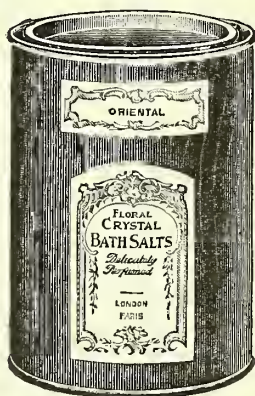
General Manager : W. H. CALNAN
3 LONDON WALL AVENUE, E.C.2.

Telephone : WALL 9966.

TOOGOOD'S PERFUMED BATH SALTS



3451



3568



3756

In Rounds, and Boxwood
Top Corks,
Capped and Ribboned.

	Per doz.
8-oz. - -	11/-
10 " - -	13/6
12 " - -	16/6
16 " - -	20/-
20 " - -	24/-
32 " - -	36/-
60 " - -	66/-

In Oak Veneer
Packages.

	Per doz.
2-lb. - -	26/-
4 " - -	50/-
7 " - -	90/-

Variegated Salts
in Stoppered Bottles.

	Per doz.
20-oz. - -	30/-
30 " - -	40/-
40 " - -	50/-
4½-lb. - -	96/-
8 " - -	132/-

Customers' names free on 3 dozen of a pattern, assorted sizes.

SHOWCARDS SUPPLIED.

Telephone:
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

Telegrams:
"TOOGOOD,
BOROH,
LONDON."

Peldo
(Patent applied for)

WINDOW DISPLAY

RETAIL PRICE

1/6

**EACH NET
(P.A.T.A.)**

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

WHOLESALE PRICE

13/6

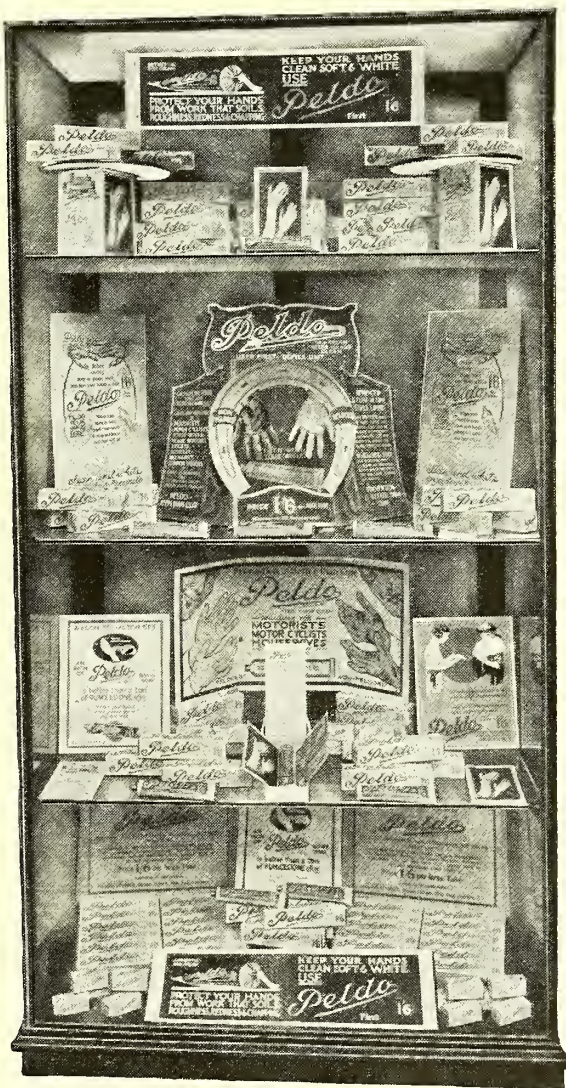
PER DOZEN.

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On orders of 1 gross a bonus of 18 full-size tubes.

On orders of 6 dozen a bonus of 8 full-size tubes.

On orders of 3 dozen a bonus of 3 full-size tubes.



We received the following letter on the 22nd of April:

Gentlemen,—

Please send per return 3 dozen 1/6 "Peldo," with full range of window display material as per your offer in to-day's *Chemist and Druggist*. What "Peldo" I have sold up to now has given entire satisfaction, and sales are increased purely through users' recommendation. I hope when better known to do big business with this profitable line.

Yours faithfully,

Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, Emmott Street, MILE END, E.1.

PAPIER POUDRÉ

TRADE

MARKS



"LEHCARESOR."

Papier Poudre

**British Made
Goods.**

**Note our Trade
Marks.**

*Beware of
Spurious Imitations.*

REGISTERED



PAPIER POUDRÉ, LTD.,

46 Baker St., Portman Sq., London, W. 1,
and at Paris.

**WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets,
2/8, 3/9, 5/- and 10/- per doz. net, respectively.**

A NEW LINE IN PAPIER POUDRÉ.

**BOOK IN WHITE, ROSE or RACHEL TINTS, containing a neat Mirror,
Price 1/-, at 7/6 per doz. net. This should make a good selling article.**

Sample Set in the three tints sent on application.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per doz. net.

NEAT MIRROR CASES, 1/6 13/9 per doz. net.

REFILLS to Mirror Cases in White, Rose or Rachel, 4d. 2/8 per doz. net.

8d. SHAVING PADS, for Use after Shaving (unscented), white only 5/- per doz. net.

POPPŒA ROUGE

A most popular line.

(Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per doz. net.

Mirror Cases 1/6, at 13/9 per doz. Refills for same 6d., at 3/9 per doz. net.

**PAPIER POUDRÉ, Ltd., 46 BAKER STREET,
PORTMAN SQ., LONDON, W.1**

Our Advertising Campaign is in full swing.

5,000,000 Homes are getting the Colorite Messages.

These Advertisements are covering your locality—and appear in

Daily Mail
Daily Mirror
Home Chat
Home Notes
Home Companion
Weldon's Ladies' Journal
Weldon's Bazaar
Lady
Eve
Glasgow Daily Record
People's Journal
etc. etc. etc.



Colorite

COLOURS OLD and
NEW STRAW HATS.

A 3 doz. Standard Assortment only costs you 34/3!

Colorite was an instant success, because—

Colorite is so clean and easy to handle.

Colorite has only 16 shades.

Colorite does Colorite.

A Pharmacist writes:—

"Enclosed please find cheque in settlement of 15 dozen Colorite just arrived.

Next to Colorite is the biggest selling proposition I have experienced in the Pharmacy where there is a very quick turnover."

1922 COLORITE STANDARD

3 Dozen Assortment.

Bottles	Bottles
6 Dull Black	2 Grey Dull
2 Gloss Black	1 Sage Green Dull
4 Navy Blue Dull	1 Old Rose Dull
2 Navy Blue Gloss	2 Cardinal Red Dull
2 Cadet Blue Dull	2 Cerise Dull
2 Victory Blue Dull	1 Lavender Dull
1 Burnt Straw Dull	2 Violet Dull
3 Brown Dull	1 Natural Gloss
1 Yellow Dull	

Packed with complete set of new 1922 shop advertising, Colorite Cut-out with straw hat attached, display stand, easel sign, window bill, colour cards, and mailing enclosures.

Selling Price 48/- Cost Price 34/3

PROFIT 13/9

CARRIAGE PAID. CASE FREE.

DO NOT MISS A SINGLE SALE

Order at once direct, or from your regular Wholesale House.

SPECIAL OFFER COUPON.

HENRY C. QUELCH & COMPANY,
4 Ludgate Square, London, E.C.4.

Please forward to me, carriage paid, case free, 3 dozen special Colorite Assortment Order, with complete set of window and counter advertising displays.

Name

Address

At
CUTTING
PRICES
to meet the
times.

BIDWELLS

CELEBRATED

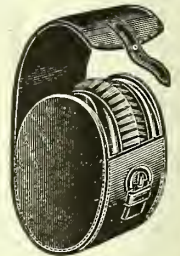
HAIR BRUSHES

LONDON:
6 East India
Avenue, E.C.3.



Made at our own Factories.

AXMINSTER, DEVON.



HAIR BRUSHES

NAIL BRUSHES.
CLOTHES BRUSHES.
SHAVING BRUSHES.

*Everything in the way
of Brushes.*



Telephone:
MUSEUM 2111

Telegrams:
"AWHILE, WESDO, LONDON."

**TITTERTON & HOWARD LTD., 8-10 GT. TITCHFIELD STREET,
LONDON, W. 1.**



Pure
Aluminium
Unaffected by
Alkali or Acid
Contents.

*The Most Hygienic Collapsible Tube made
for Tooth Pastes, Pharmaceutical Products, Lanoline,
Cosmetics; Gums, &c.*

ALUMINIUM CONTAINERS FOR SHAVING STICKS. TUBES FOR
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TUBE FILLING AND CLOSING MACHINES.

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Thinks of**

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Special Offer.**

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PYRAMID CORKS


are better corks because of the Pyramid Policy. We could make cheaper corks and get the same price—but it's not honest. And honesty is the Pyramid Policy. 100% value for money—nothing less—that is what has built this business.

Write for Pyramid Prices and Samples to-day.

N. W. Mitchell & Sons, Ltd.,
"The Cork Firm."
Limehouse, London, E. 14.



D'Orsay, Paris.



There has been some difficulty in obtaining the Perfumes of this famous Paris House owing to the enormous demand all over the world.

Arrangements have now been made to cope with the difficulty, and stocks of all the leading lines are available in London.

Well advertised in the fashionable Press, "Sketch," "Tatler," "Bystander," "Queen," etc. Order now for the increasing demand.

LATEST CRAZE IN PARIS.

"Les Fleurs d'Orsay"

"Le Parfum d'Orsay"

GOOD TRADE PROFIT. BONUS ON MANY LINES.

D'Orsay prepare the Essences, make their own Bottles and Boxes. This allows them to offer the finest products obtainable at relatively reasonable prices.

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of
THE CHEMIST & DRUGGIST
IS DUE FOR PUBLICATION on JUNE 24th, 1922

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HAVE YOU ANYTHING TO CURE HAY FEVER?

This is the question that will soon be asked of every chemist by customers suffering from this distressing complaint. Just hand them a tube of

"BAR-KA-TAR"

and the deed is done. Costs 7/- doz., 3 doz. lots 6/6. A full size selling sample cheerfully mailed. Well packed in nasal tubes. Showcards for display.

"NUXOCOL" COCOANUT OIL POMADE—another addition to the popular series of Cocanut Oil preparations. A real hair grower of merit and well worth pushing. Packed in 2 oz. octagonal Opal Pots, high-class finish, showcards.

Price 6/6 doz. ; sells at 1/-

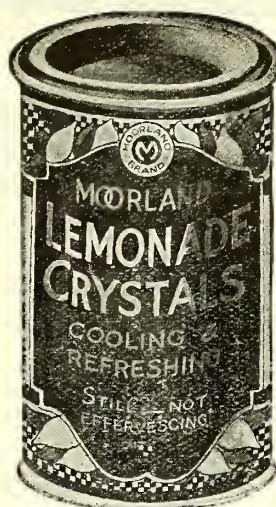
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HEALTH SALTS

MOORLAND Health Salts are fast becoming a firm favourite with the public. The exhilarating taste and clear sparkling solution make an instant appeal to all who purchase them.

The special air-tight tin, all seams of which are treated with a patent compound during manufacture, ensures the keeping qualities of the salt under all conditions—a feature appreciated by the pharmacist and the public.

A fine pin-head granule, which gives a continuous effervescence, a fixed selling price and—a good profit for you.

PER DOZ.	ONE GR.	THREE GR.	FIVE GR.	RETAIL PER TIN
7/-	6/6	6/4	6/3	10d.

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MOORLAND Lemonade Crystals are manufactured with a terpeneless Oil of Lemon and Sugar. They possess a rich Lemonade taste and odour, not the imitation.

They are packed in an air-tight tin and will assure you a steady flow of trade from satisfied customers who will come again and again for the line that goes further in use and gives more satisfaction. The profit for you is better, and the accumulating goodwill from delighted users is going to help you with your whole business.

PER DOZ.	ONE GR.	THREE GR.	FIVE GR.	RETAIL PER TIN
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BATH CHAMBERS,
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Display these quick-moving lines To-day.



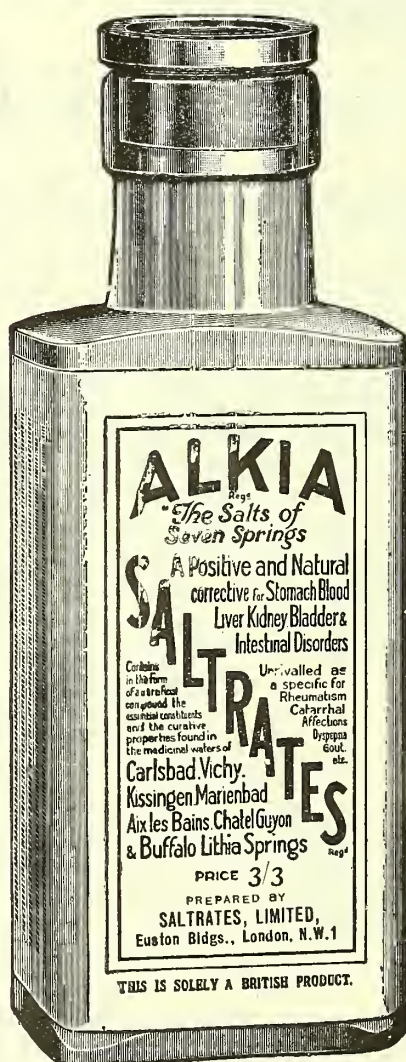
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The acme of perfection in Salines. Nothing better for Liver, Kidney, Stomach, Blood and Intestinal disorders.



Protected on P.A.T.A. at the full face value of 3/3 a large bottle.

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***TOM PAYNE**
Champion Walker.

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A widely advertised and quick selling product, which represents the maximum of possible efficiency in a salt and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or otherwise unpleasant taste.

YOU CAN STOCK THESE GOODS ON GUARANTEED SALE TERMS.

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The best of all bath preparations, either for medicinal or for general toilet use. Banishes corns, stops pain, softens water, clears the skin.

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REUDEL BATH SALTRATES

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World's Champion Sculler.

present holders of World's Championships.

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Cambridge Coach for 30 years.

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The Great Golfer.

REUDEL BATH SALTRATES

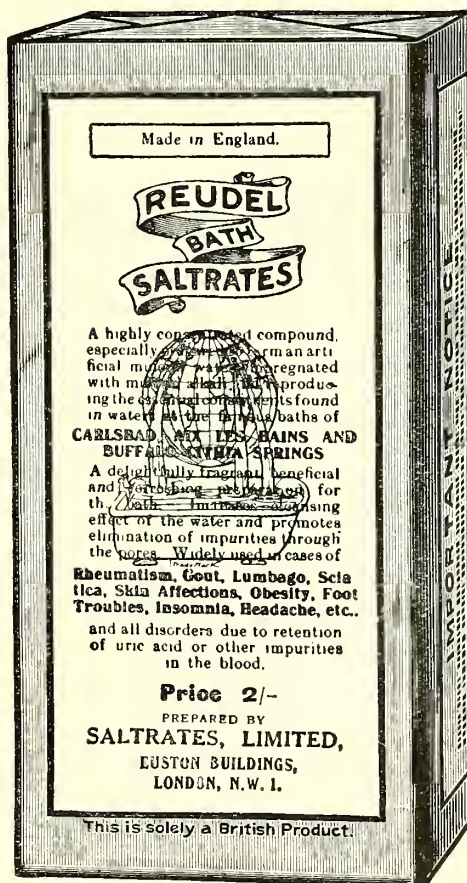
The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes.

Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised.

TERMS FOR COUNTER SHOW.

Retailers' orders for one gross or over (which may be assorted), we will give a bonus of $\frac{2}{3}$ -doz. Alkali Saltrates and Reudel Bath Saltrates on the understanding that our goods will be given a Counter or Window Show. The free goods will be assorted in the same proportions as the goods ordered.

In Two Sizes.
Half - pound and
one-pound Packets.



Protected on P.A.T.A. at the full face values
of 2/- and 3/3 (double size).

THE CONFIDENCE TRICK!

as practised by LANG'S, is the trick of prompt delivery from their big stocks of Miscellaneous GLASSWARE. It is a sure winner of trade confidence and approval. What can we offer you for your Summer Season?



KALI



LIME

Bottles,
Jars,
Chemical
and
Laboratory
Glassware
in immense
variety.



Narrow-mouth SHOP ROUND



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Wholesale
ONLY

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No RETAIL
Firms supplied.

Charlton Works - Charlton Place - Islington - LONDON, N.1.
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Bentley's Complete Phrase Code.

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A. Ruch & Co

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G. GRANT FORSYTH.
R. BRUCE FORSYTH.
W. FRASER FORSYTH.



GLASS BOTTLES

of every description.

ENQUIRIES INVITED

28 Martin Lane, Cannon St., London, E.C. 4.

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Is It?

CELLOPHANE

is a transparent film of pure Cellulose, absolutely air, grease, and odour proof, unaffected by cold, heat or moisture, and sterilisable.

An ideal wrapping for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, Sponges, etc. etc.

Will keep your Goods, Boxes, Bottles, and delicate Labels clean on the Counter and in Shop Windows, allowing the Articles to be seen by transparency. Can be had colourless, coloured and embossed.

Also in the shape of Labels for Bottles, and Discs for Creams, Ointments, Boot Polish, &c.

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Agents Wanted where not represented.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

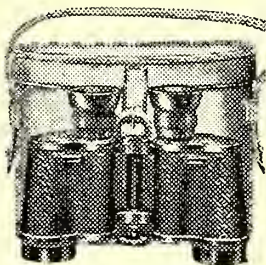
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Genuine GOERZ and ZEISSLAR.

Great War Stock purchase of Prismatic Binoculars, all by well-known makers. We are offering these wonderful Bargains for a few weeks only at one-third of cost, and much below pre-war prices.



Genuine GOERZ 6×30 ... List price £15 15 0
Sale price £6 10 0

Genuine ZEISSLAR Ocean Binocular 6×38 & 8×38
List price £16 16 0
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Genuine OIGEE Binocular 6×24 List price £12 12 0
Sale price £3 15 0

Genuine DERAISME PARIS 8×24 ... £4 5 0
Genuine DERAISME PARIS 12×24 ... £5 5 0

All the above are fitted with separate screw and eyepiece focus and bending bar, in leather case and sling complete.

They are all new, perfect and fully guaranteed. Call at our Showrooms and see the wonderful bargains offered, or if impossible to call we will forward on 7 days' approval, and if not entirely satisfied the full amount will be refunded.

GRAMOPHONE MFG. CO.
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Telephone: Museum 3772.

The "ROLO" FLY - CATCHER

The 'Best Seller' of the Summer Season.

Neat and attractive in appearance, clean to handle and easy to open (the fingers cannot come in contact with the gum), the "ROLO" is at once both useful and ornamental.

Evenly spread on both sides with our special non-drying gum, it is also very highly effective, being, in short, *the ideal Cemetery for Flies!*

The Medical Profession have been recommending the "ROLO" for over 20 years.

The War Office, too, bought large quantities for the use of the troops in Mesopotamia & Salonica.

Made in two SIZES, 1d. & 1½d.

STONEHOUSE Bros.
High St., Old Basford, NOTTINGHAM

TO SHOW IT IS TO SELL IT.

An exceptionally good profit, quick sale—and no risk of large stocks at the end of the season, as you can buy little and often, and have delivery within 36 hours by passenger train.

Send to-day for samples and prices, or order through your usual wholesale house.

YOU MUST KNOW

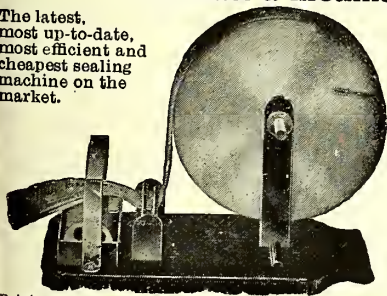
if you are using String, Twine, or Wax for packing, how slow, expensive and clumsy any of these methods are.

GUMMED TAPE is being used by most of the large and up-to-date Firms. But to make sure of Efficiency in your Packing Department use the best Moistener on the Market—KING'S "AWLMETAL."

As the name denotes, this Moistener is made completely of Metal. Do not waste time and Money in buying Wooden Machines which will cost you more and will soak up the moisture into the wood and quickly become unusable.

The "AWLMETAL" Moistener will last a lifetime.

The latest, most up-to-date, most efficient and cheapest sealing machine on the market.



PRICE

12/6

EACH

Gummed Tape Extra.

Points.—All metal non-rustable bath and brass roller. Special device to keep tape off roller when not in use. Nickel Cutter. Will take one roll up to 3 in. width or two 1 in. rolls. Takes up small space—viz. 11 x 5½ in. The whole machine takes to pieces for cleaning purposes.

Send a Postcard for a Machine on approval at once. GUMMED TAPE for use with King's "AWLMETAL" Moistener. No. 684 Brown Tape Kraft, width 1 in., length 800 ft., at 2/1 per roll, 24/- per doz.

Gummed Tape can be had in all sizes, qualities, and colours. If required specially printed, send us particulars; we will quote Special Prices by return.

Sold by **J. C. KING, LTD.** [1]
Specialists in all kinds of Stationery and Time-Saving Appliances.
42-60 Goswell Road, London, E.C.1.

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WHOLESALE ONLY.

Sole Agent: **ADOLPHE SÉGALLA,**
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Write for Sample.



Rubber Corks

ALL SIZES & FOR ALL PURPOSES
ONE HOLE, TWO HOLE OR SOLID
THE ALTRINCHAM RUBBER COMPANY
MOSSBURN BUILDINGS, ALTRINCHAM.

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METOL and other of their well-known Products.
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7/6, by post 8/3.

CHEMIST'S DICTIONARY OF MEDICAL TERMS.
3/6, by post 3/10.

The **CHEMIST & DRUGGIST**, 42 Cannon Street, E.C.4

BROWN'S BRONCHIAL TROCHES

This new size is most convenient for the waistcoat pocket and is called the "Handy Packet"

A NEW SIZE to be SOLD RETAIL at 1/3

Trade Prices : "HANDY PACKET"

England and Scotland (Stamped), 15/- per dozen. Ireland and Channel Isles (Unstamped), 12/- per dozen.

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England and Scotland (Stamped), 30/- per dozen. Ireland and Channel Isles (Unstamped), 24/- per dozen.

Discounts : 25% and 10 %— 1 gross quantity each size or assorted.
 25% and 12½%— 3 " " " " " "
 25% and 15 %—10 " " " " " "
 1% Cash 10 days from date of Invoice.

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General Sales Agents :

THE BRITISH HAROLD F. RITCHIE & CO. LTD.
 33 FARRINGDON ROAD, LONDON, E.C. 1

See What You Save!

BIG OFFER FOR WINDOW DISPLAYS

FREE OFFER

We announce the following important alteration in our display terms. Until further notice we shall give with all display orders for our GLYCOLA and GLYCOLA HEALTH SALT a bonus of :—

1 doz. Shampoo Powders with each	1 doz. 1/4 Glycola
1 " " " " " "	2 " 8d. " "
1 " " " " " "	1 " 10½d. Health Salts

The adjoining figures show a specimen order for Health Salts only—See what a fine profit you make!
 Don't miss this paying proposition. Order through your P.A.T.A. Wholesaler as usual.

It will pay you to display our goods.

CLARK'S GLYCOLA CO., Ltd.
 CRICKLEWOOD.

Wholesale	
4 doz Health Salts @ 7/9	31/-
4 " Shampoo Pdrs	— FREE
Less 10% for Window Display	3/1
	<u>27/11</u>
Retail	
4 doz Health Salts @ 10½	42/-
4 " Shampoo Pdrs @ 3	12/-
	<u>54/-</u>
Profit	<u>£1-6-1</u>

PROFITABLE REPETITION

The pharmacist's reputation and responsibility demand caution in introducing new products. Those with a bubble reputation, which bursts on trial, cause loss of prestige.

On the other hand, those products which possess originality, fine quality and utility, pave the way for the repeat sales which are the backbone of sound business.

'OZOZO' carries the hall mark of quality. It has the virtues of the well-known "'HAZELINE' SNOW," and, in addition, a definite utility of its own, in that it conjures roses to the cheeks of those who lack natural colour.

While soap and water removes it instantly, plain or salt water, tears or rain will not smear it. 'Ozozo' is non-greasy and non-detectable.

□ □ □ □

TRADE **'O Z O Z O'** MARK



*Reduced
facsimile*

Brightens Pale Complexions

*Supplied in glass pots, at 21/6
per doz. (subject). Write for
showcards and printed matter*

□ □ □ □



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WARRICK BROTHERS, LIMITED

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CRYSTADES.
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A WEEKLY JOURNAL OF PHARMACY AND OF
THE CHEMICAL AND DRUG TRADES.

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d. post free; *Diary*, 20s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins Ltd."

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C. 4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3627 (3 lines).

Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester.
(Telephone: City 52)

Melbourne and Sydney, Australia.

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Wills

MR. ALBERT EDWARD FOREMAN, chemist and druggist, Barton Street, Gloucester, who died on December 30, left estate of the gross value of £1,200 6s. 11d., of which £670 11s. is net personality.

MR. HENRY JOHN THOMAS NETTEN, chemist and dentist, 16 Manor Street, Stonehouse, who died on December 31, left estate of the gross value of £18,770 11s. 9d., with net personality £7,793 16s. 4d.

MR. ABRAHAM LEWIS THOMPSON, chemist and druggist, Melrose, 5 Sydney Road, Upper Walmer, who died on March 13, left estate of the gross value of £2,466 1s. 7d., of which £804 13s. 9d. is net personality.

MR. JOSEPH BLOWER, J.P., retired chemist, Astley Lodge, Knighton, Radnor, who died on December 30, left property of the value of £8,347 11s. 11d., of which £5,279 10s. is net personality. Probate has been granted to John Banks Gouldbourn, nephew, 16 Pride Hill, Shrewsbury, chemist, and the Rev. Hyacinth Osman Grimes, Bettws-y-Crwyn. He left the household effects and £100 to his wife, £100 to his daughter Nancy Ruth Grimes, and the residue of the property in trust for Mrs. Blower for life and then for his daughter.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Reduction of Telephone Charges

The reductions in telephone charges which the Postmaster-General announced in the House of Commons will take effect from the beginning of the next quarter on July 1. The principal alterations are as follows:

(1) The installation rental for a connection to a residence where no business of any kind is carried on will be reduced by 30s. a year. The new rentals will, therefore, be £7 in London, £6 10s. in Birmingham, Liverpool, Manchester, and Glasgow, and £6 elsewhere. In the case of two-party lines, the charge will be £4 10s. for a residence connection and £6 for a business connection.

(2) The extra mileage charge will be reduced from £1 5s. to £1 per furlong. A similar reduction will apply to external extensions and to private telephone wires.

(3) The charge for a local call will be reduced from 1½d. to 1½d., and the charge for a call over a distance between five and seven and a-half miles will be reduced from 3d. to 2½d.

(4) The charges for the shorter distance trunk calls have been revised, and in future the local fee will not be charged on any trunk calls. The result of this change will be that the charge for a three-minute call over distances up to thirty-five miles will be ½d. less than at present, and for calls over greater distances 1½d. less than at present.

(5) The charges for trunk calls made between 2 p.m. and 7 p.m. will be reduced, the new charges being approximately 25 per cent. less than the present charges. Calls made between 7 p.m. and 7 a.m. will, as at present, be charged in most cases at half the full rates.

(5) The Call Office fees for calls up to seven and a-half miles will remain as at present. For calls over longer distances 2d. only instead of 3d. will be added to the trunk charge, the total being rounded up to the nearest penny, when the call is made from a call office with a coin box.

The Dental Board

Applications have been received from the following persons on the grounds that they are pharmaceutical chemists or chemists and druggists, and that immediately before July 28, 1921, they had a substantial practice in dentistry in the course of which they personally performed such operations and gave such treatment, advice, and attendance as are usually performed and given by dentists. Any objection to registration must be lodged within one calendar month from May 15, and must be supported by evidence sufficient to show a *prima facie* case against registration:

1. Bates, Henry James, 44 Adelaide Terrace, Benwell, Newcastle-on-Tyne.
2. Connolly, Harry, 154 Manor Street, Belfast.
3. Davis, Sidney, 50 Broad Street, Chesham.
4. Hadfield, Albert Edward, 728 Burnley Road, Cornholme, Todmorden.
5. Hallett, James, Bridge Street, Ballater, Aberdeenshire.
6. Hart, James Stanley, 130-132 Newport Street, Bolton.
7. Hodgson, George Cuthbert, 70 Barker Road, Linthorpe, Middlesbrough.
8. Kells, Robert, 90 Albertbridge Road, Belfast.
9. Laws, John Joseph, 45 Fulham Road, S.W. 3.
10. Malins, Templar Edward, 51 Queen Street, Cardiff.
11. Mitchell, Thomas, 139 Newtownards Road, Belfast.
12. Page, Henry Skinkelthorpe, 47 West Street, Wilton.
13. Routly, Owen, High Street, Heacham, Norfolk.
14. Smith, John Stanislaus, Cootehill, co. Cavan.
15. Sumner, Henry James, 45 Manor Street, Dublin.
16. Wigglesworth, William, 92 High Street, Slough.
17. Wilkinson, James, 1 Dunearn Gardens, Belfast.
18. Wolfe, Ernest Edwin, 7 Fisher Street, Kinsale, co. Cork.

Birmingham

As a result of a reduction in various charges there has been a revival of the canal traffic of late.

"It is generally agreed in this district that the reductions in the railway rates are inadequate and disappointing," writes a correspondent.

A first and final dividend of 10s. 5½d. in the £ is to be paid to the creditors of P. Keats, chemist and druggist, formerly in business at 167 Mary Street, Balsall Heath.

Mr. John H. Freeman (J. & E. Freeman, Ltd., wholesale chemists, Icknield Street) informs us that he is not the Mr. John Freeman referred to as a horticultural prizewinner in the *C. & D.* of May 6 (p. 40).

Dr. J. Newton Friend, who is to deliver a series of lectures on colloids before the Birmingham Pharmaceutical Association, has been awarded £100 by the Carnegie Trust to continue his iron-corrosion tests on a large scale.

In the course of a recent discussion on trade boards by the Midland branch of the National Union of Manufacturers at Birmingham, Mr. H. D. Jackson said that, having had experience of Government control, manufacturers were convinced that the sooner they could be rid of what looked like another method of regulating wages the better for the country.

At Birmingham Police Court, on May 13, Rose Oakley (forty-eight), described as a nurse, was remanded on a charge of having, on May 12, endeavoured to obtain morphine tablets from the Park Road, Aston, pharmacy of Mr. H. Buckingham, chemist and druggist. Defendant, it was stated, had previously used the name of Dr. J. H. Sproat, Erdington, in this connection.

Leicester

Mr. G. E. Marfitt, chairman of the General Committee, and Mr. H. A. Martin, chairman of the Competitions Committee, represented the pharmacists in the procession which followed the opening ceremony of the shopping-week.

Suburban pharmacists have taken advantage of the shopping festival to prove that skill in window-dressing is not confined to their *confrères* in the central area. The preparations of Eucryl, Ltd., and D. & W. Gibbs, Ltd., are exhibited in many establishments, and photographic apparatus is being effectively displayed.

Mrs. Stroud, wife of Mr. H. N. Stroud, a director of John Richardson & Co. (Leicester), Ltd., has returned home from a ten months' trip, during which she visited her three sons—Captain G. M. Stroud, who is stationed in the Central Provinces, India; Mr. S. H. Stroud, who is examiner in Sydney for pharmaceutical and medical students; and Mr. R. F. Stroud, who has a medicinal herb farm at Kalamazoo.

Liverpool

"Eno" window-displays are conspicuous in the suburbs.

The Rexall dépôt is being transferred from Liverpool to Nottingham.

An attempt to trap a pharmacist on the half-day closing was made last week.

No contested election for the Pharmaceutical Council has brought so few circulars from candidates to voters in this district.

A traveller in perfumery states that restrictions on the sale of spirit have reduced the sales of his goods to a minimum in several Continental countries.

Early morning and late afternoon deliveries, each within two hours of the receipt of orders by post or telephone, are among present-day benefits to retailers.

Mr. E. G. Hodges, of Fairfield, Liverpool, who is seventy-three years of age, has just had two more perilous adventures. In South Wales he was knocked down by a motor-omnibus. On his return home, and while alone in the house, he found his bed-clothing in flames. He extinguished the fire alone, and has gone on a visit to Brighton.

Nottingham

Mr. A. E. Beilby, chemist and druggist, Radford, has recently celebrated his seventieth birthday.

The foundation-stone of the new University College building is to be laid next month. The site selected—Highfields Park—is the gift, together with £150,000, of Sir Jesse Boot, Bart.

Mr. F. Ross Sergeant, chemist and druggist, who has been established in Beastmarket Hall since 1832, has removed to temporary premises at No. 1 Exchange Row. Mr. Sergeant will shortly open in new premises at the corner of Clumber Street and High Street.

Sheffield

A movement is afoot to form a pharmacy cricket club, and various proprietors have been approached to this end by their assistants.

A scholarship has been founded at Sheffield University by the Cutlers' Company of London in memory of the late Captain F. G. Boot, a Past Master. The holder of the scholarship has to study languages in France or Spain.

Southport

Mr. W. H. Kendrew, chemist and druggist, 50 Ash Street, has opened a branch at Hesketh Road.

A pharmacy has been opened at 17 High Park Place by Mr. W. H. A. Tidy, chemist and druggist.

Mr. Coates, formerly with Clay & Abraham, Ltd., Liverpool, has purchased the pharmacy of the late Mr. R. H. West.

Miscellaneous

COCAINE-TRAFFIC CASE.—At Marlborough Street Police-court, London, on May 16, Jane Pye, haberdasher, Upper Rathbone Place, W., was sentenced to four months' imprisonment for being in unauthorised possession of cocaine.

SHOPPING-WEEK AWARDS.—Among the prize-winners for window-displays during the recent Cardiff shopping week were: Anthony & Co., Ltd., chemists; Mr. C. Fargher, chemist and druggist; and Albert Hagon, Ltd., chemists.

FIRE.—An outbreak of fire was caused by a light being thrown down, on May 11, on the premises occupied by Raoul Frères, chemical merchants, 41 West Lane, Bermondsey, London, S.E. 16. The damage was practically confined to the ground floor.

CRICKET MATCH.—A cricket match between elevens representing 'Taylors' Drug Co., Ltd., and Hirst, Brooke & Hirst, Ltd., played at Kirkstall Hill, Leeds, on May 16, resulted in a win for the former team. The scores were: Hirst, Brooke & Hirst, Ltd., 29 all out; 'Taylors' Drug Co., Ltd., 31 for four wickets.

COST OF LIVING.—It is announced by the Ministry of Labour that, on May 1, the average level of retail prices of all the commodities taken into account in Ministry of Labour statistics was about 81 per cent. above that of July 1914, as compared with 82 per cent. on April 1, and 176 per cent. on November 1, 1920.

SLEEPING-SICKNESS RESEARCH.—Lecturing at the Royal Institution, on May 12, Dr. H. H. Dale stated that the Bayer Co. has discovered a cure for sleeping-sickness. The substance, apparently a chemical with a formula allied to those of certain dyes, is known as "Bayer 205." The new "cure" has been made available in this country, and a commission of German doctors has left, with the permission of the Colonial Office, for Rhodesia in order to apply further tests.

IN THE COURTS.—At Burton-on-Trent, on May 12, Geoffrey R. Howard, described as a chemist, was fined £3 5s. 6d. for offences against motor-licence regulations; and Boots, Ltd., Nottingham, were fined £5 for using for trade purposes, it was alleged, a motor-lorry bearing a "G.I.M." plate, which permitted use for trial only. Mr. Clifford, who appeared for Messrs. Boots, intimated that an appeal might be lodged.—At the New Romney Petty Sessions, recently, a summons against Mr. Lewis A. Kirkland, chemist and druggist, for assaulting Mr. Charles W. Haynes, described as a retired chemist, was dismissed, as also was a cross-summons taken out by Mr. Kirkland.—At the Old Bailey, on May 17, Denzil-Simpson, clerk, was sentenced to nine months' imprisonment for demanding money with menaces from Mr. Wilfred Fraser Smith. Barnes, described as a retired chemist.

"JOURNAL OF SCIENTIFIC INSTRUMENTS."—A preliminary number of a journal under this title has been published by the Institute of Physics, 10 Essex Street, Strand, London, W.C. 2. The journal is produced with the co-operation of the National Physical Laboratory, and is edited by Dr. E. H. Rayner, acting with an advisory committee. It is proposed to charge 2s. 6d. for each monthly issue, and it is estimated that with a circulation

of 3,000 the publication would be self-supporting. Sir J. J. Thomson, F.R.S., writes a foreword in the preliminary number.

LOSSES THROUGH HIGH TAXATION.—Writing to the "Daily Express" of May 15, Mr. W. F. Charles, chemist and druggist, governing director of Zenobia, Ltd., gives the following striking illustration of the effect of the present spirit duties: "The consumption by my firm averaged for some years 6,000 gallons. This year, however, our purchases have been little over 100 gallons. Owing to our reduced turnover and fast-disappearing profits, the Government stand to lose £4,000 a year on the income-tax of our firm alone. There is a further loss on the income-tax of our staffs and employees." Mr. Charles points out that the loss spreads to ancillary factories for making cardboard boxes and for printing. "Sixty skilled employees in these departments we have recently discharged are now drawing the Government dole."

OFF-LICENCE APPLICATION.—At Bradford Licensing Court on May 10, Mr. H. M. Dawson applied on behalf of Mr. L. M. Eastwood, chemist and druggist, for the transfer of a licence for the sale of wines and spirits at a shop at Holroyd Hill, Wibsey. Mr. Dawson said that Mr. H. A. Henderson, chemist and druggist, who was desirous of retiring, had held the licence for twenty-six years, taking it over from his father, who had held it from 1866. Particulars of sales put in showed that 378 bottles of spirits were sold in 1920, 420 in 1921, and 178 this year so far. Wines sold were 312 bottles in 1920 and 244 last year and to date. Mr. Henderson, giving evidence, said he did not sell spirits during the war because he could not get them, and at another period he did not sell them as it did not pay owing to competition from the clubs. After a discussion in private the Bench granted the application.

Irish News

Pharmaceutical Society of Ireland

The Calendar of the Pharmaceutical Society of Ireland for the year 1922 (vol. xlv.) has just been issued, and is obtainable (4s. 4d., post free) from the Registrar of the Society, 67 Lower Mount Street, Dublin. It has been corrected up to December 22, 1921. The examination papers set during 1921 are included.

Customs and Excise Duties

All Customs and Excise duties are still being levied on importations into Ireland. The Key Section of the Safeguarding of Industries Act is therefore still in force as regards imports into Ireland. The Irish Provisional Government has agreed to the British Customs continuing in office and collecting the taxes, but the money so obtained is handed over to the Irish Provisional Government.

Irish Medical Contracts

The following additional contracts have been declared by the authorities named (boards of guardians unless otherwise specified):

—	Drugs	Appliances
Galrothery ...	Boileau & Boyd, Ltd., Dublin	Fannin & Co., Ltd., Dublin
Castlecomer Hospital ...	Whelan & French, Cork	Fannin & Co., Ltd., Dublin
Cork Co. Hos- pital Board	Boileau & Boyd, Ltd., Dublin	—
Sligo Home Committee	Whelan & French, Cork, 27½% Boileau & Boyd, Ltd., 25%	Fannin & Co., Ltd., 10%

Brevities

Mr. Peter O'Brien, Dublin, has been appointed analyst to the Cavan County Council.

Mr. H. B. O'Donoghue, Ph.C., The Pharmacy, Virginia, has been co-opted a member of the Cavan County Council.

The Dublin Board of Guardians has appointed Dr. J. Keane, 6 Shamrock Villas, Drumcondra, temporary analyst, at a salary of £100. Dr. Keane has also been elected analyst to the Meath County Council.

At an inquiry, held on May 10, to investigate the death of Charles Lavelle, assistant with Mr. E. Byrne, Ph.C., Coalisland (*C. & D.*, May 13, p. 43), a verdict of "Murder" against some person or persons unknown was returned.

Belfast

Mr. William C. Dobbin, Ph.C., has just returned from an interesting trip, occupying five months, in France, North Africa, Sicily, Italy, and Switzerland.

At the Recorder's Court, recently, before the Deputy Recorder, Mr. Henry Francis Moore, Ph.C., Royal Avenue, Belfast, claimed £3,000 for personal injuries sustained as the result of a gunshot wound received in Royal Avenue on August 31, 1921. After evidence had been given it was intimated that the parties were arranging a settlement, and the case was allowed to stand. Later counsel stated that a consent for £875 had been agreed to, and the Deputy Recorder entered a decree for this amount.

Scottish News

Brevities

Fife panel chemists have recently received payment for February prescriptions.

Dr. J. F. Tocher, Ph.C., Aberdeen, has been appointed public analyst for Elgin.

Hamilton Town Council has accepted the tender of Mr. P. A. Stewart, chemist and druggist, for drugs, etc.

W. & A. Robertson, chemists, Elgin, have been appointed to supply drugs to the Morayshire and District Asylum.

Edinburgh

"Hyena hair-wash" was asked for at a city pharmacy this week.

Tincture of iodine of the French Codex is being prescribed by a local doctor.

The annual endeavour to sell all sorts of bottles, the fruits of spring cleaning, to chemists is in full progress.

An apothecary's balance stated to have belonged to Prince Charlie has been presented to the Royal College of Physicians of Edinburgh by Dr. T. W. Dewar.

Edinburgh Chemists' Golf Club held the competition for the Mackay trophy over Lothianburn course on May 3, with the following result: (1) A tie, Mr. J. P. Gibb and Mr. W. Spence, 81; (3) Mr. J. Brown, 82. (Class 2) Mr. G. W. Mangan, 85.

The clerk of Edinburgh Parish Council has written to local chemists who supply medicines to outdoor poor asking if they are willing to charge according to the Scottish Chemists' Retail List and allow a discount off each quarterly account. Chemists are requested to state the amount of discount. The Parish Council's price list has been obsolete for some years.

Glasgow

The bowling section of the Glasgow Pharmacy Club played the opening match of the season on Mount Florida green on May 16, when three rinks turned out. Play was close, the winning rink having a margin of but six shots over their opponents. Handsome clocks (the gift of the convener, Mr. D. McNicol) were secured by Messrs. W. Seivwright, W. Wood Wilson, W. Smith, and D. Bruce (skip). First round ties for the W. Greig trophy should be finished by May 30 and results forwarded to the secretary as soon as possible.

It is announced that parcels may be posted at certain post offices for conveyance by air and delivery in Brussels at the same rates and under the same general conditions as for Paris. The scale of charges is as follows: For parcels weighing up to 2 lb., 1s. 9d.; 3-5 lb., 3s.; 5-8 lb., 3s. 9d.; 8-11 lb., 4s. 3d.

Legal Reports

Cream of Tartar Case.—At Keighley Police Court, on May 12, Allan Pedley, grocer, Haworth, was summoned for having sold cream of tartar containing 60 per cent. of arrowroot. The defence was that the article was purchased with a warranty from G. L. Greenwood & Co., Ltd., manufacturing chemists. The invoice was dated November 3, 1920. Mr. E. Dewhirst, who appeared for Messrs. Greenwood, said that the warranty was admitted, and it was quite evident that the introduction of the arrowroot into the cream of tartar had been accidental, not intentional. His clients dealt with the commodity in hundredweights at a time, and they had never had a previous complaint. From the wholesalers' point of view, no one would introduce arrowroot into cream of tartar with the idea of defrauding anyone, because there were other commodities cheaper and less easy to detect than arrowroot. Replying to Mr. Butterfield, Mr. G. L. Greenwood said it was evident there had been a mistake on the part of someone. The wholesale price of arrowroot was the same as that of cream of tartar. The case was dismissed.

Hair-dye Claim.—In the King's Bench Division, London, on May 12, Mr. Justice Acton awarded £65 damages to Catherina Williamson, Woburn Square, London, who sued Harry and Lewis Soul, hairdressers, Tottenham Court Road, London, W., on account of personal injury caused through the application of Inecto. The case for the plaintiff was that she went to the defendants' shop to have a henna application. She was left unattended too long after the henna was applied, and as a consequence the hair was too red. The assistant said he would tone it down, but plaintiff expressly warned him not to use Inecto, as she knew it would harm her sensitive skin. Inecto was used, however, and as a consequence she was under the doctor's treatment for eczema for a period of three weeks. The defence was that plaintiff came to the shop and asked expressly for Inecto, in order to dye the grey hairs on her temples. His lordship observed that the only question was to find whose story was to be believed. He accepted the plaintiff's story. Harry Soul would be dismissed from the action, since he was not in partnership with Lewis Soul. Judgment for plaintiff against Lewis Soul for £65.

Mr. Keene's Formulas.—In the Court of Appeal, London, consisting of the Master of the Rolls and Lords Justices Warrington and Younger, on May 12, Mr. Irving Alexander Keene, who had carried on business as the Keene Co., at 52 Gray's Inn Road, London, W.C., appealed from an order of Mr. Justice Astbury directing that the appellant should disclose to the trustee in bankruptcy the formulas of proprietary articles he had manufactured under the name of Keene's cold cure, Keene's corn cure, and Razorine (*C. & D.*, April 22, p. 43). It was stated that an offer had been received by the trustee for the purchase of the assets, but that without the formulas the sale could not be completed. Mr. Justice Astbury stayed the operation of his order pending the hearing of the appeal. Mr. Gilbert Beyfus appeared in support of the appeal and Mr. E. W. Hansell represented the trustee in bankruptcy. Mr. Beyfus contended that the formulas were not part of his property; they were part of the debtor's skill and capacity. The debtor had made these things by a secret process in partnership with his brother, and when they dissolved partnership it was agreed that the debtor should manufacture and deal in these things in England and America and the brother in France. It was necessary for the protection of both brothers that neither should disclose these secrets. The Master of the Rolls, in giving judgment, said that if these formulas were known to have been written down it could hardly have been contended that the debtor ought not to hand over the writing to the trustee, but it was said that as the knowledge was in the brain of the debtor it did not constitute "property" within the meaning of the Bankruptcy Acts. In his view that was not right. The formulas were used in the manufacture of these articles, and they are part of the goodwill owned

by the debtor. The appeal on that point failed. Then it was said that the debtor had carried on this business with his brother upon terms that the secret should not be disclosed except in certain eventualities, and that when the partnership was dissolved it was implied that the secrecy would be presumed for the protection of both. There was, however, no condition in the deed as to secrecy, but by the deed the business in England and America, with the goodwill and book debts, became the property of the debtor. If he had been bound as suggested, he would not have been able to sell the business to any purchaser, and it would not have become his sole property. The second point, therefore, failed, and the appeal must be dismissed. Lords Justices Warrington and Younger delivered judgment to the same effect.

Chemist Sued.—Mr. Justice Darling, in the King's Bench Division, on May 17, heard an action brought by Mr. and Mrs. Herbert Holt, of Breakspere Road, New Cross, against Mr. Charles Northen, trading as W. Phillips & Co., chemist, of Lewisham High Road, for damages for alleged negligence. Defendant denied any negligence. Mr. Jowett, K.C. (with him Mr. Somervell), for the plaintiffs, said that Mr. Holt was clerk to the chief engineer of the South Metropolitan Gas Co. About Whitsun last year he was suffering from a cold and advised to try an old-fashioned remedy of a mixture of sweet spirit of nitre and tincture of rhubarb. The object was to sweat himself well. Mrs. Holt took two clean bottles, which had previously contained a cough mixture, to defendant's shop and got the nitre and the rhubarb, each being in a separate bottle. That night Mrs. Holt, who also had a cold, and her husband took the mixture of these ingredients, in hot water, on entering bed. Half an hour later both awoke and had painful spasms or seizures. They noticed the mixture had a bitter taste when they took it. Assistance was called, and as strychnine poisoning was suspected, emetics were given them. An analysis of the vomit was made, and it was found to contain strychnine. The dispute was whether that strychnine was taken by them as the result of the substances supplied by the chemist. He could eliminate port wine, which plaintiffs drank before going to bed, as other people also drank of it and did not suffer ill-effects. In evidence given by Mrs. Holt, she said that the bottles she took for the spirit of nitre and rhubarb were perfectly clean. Mr. George Harrison, public analyst of Shoreditch and Deptford, said he analysed the vomit received from Dr. Wotherspoon, who attended Mr. and Mrs. Holt. He found that it contained strychnine amounting to one-tenth of a grain. He examined for other poisons, with negative results. He believed that less than a grain of strychnine had proved fatal in recorded cases. He found no morphine in the vomit. Dr. Barnett, of Belmont Hill, Lee, said that early in May last year he prescribed for Mr. Holt for a cold. He gave him a medicine containing nitre, spirits of camphor and chloroform in small quantities. There was no morphine or strychnine in it. Mr. Craig Henderson, opening defendant's case, said that any mistake in serving poison by defendant was not only not correct, but impossible. The poison cupboard in defendant's shop was in a separate part from that where such medicines as Mrs. Holt got were administered. The substances she got were purchased from a well-known wholesale firm, and defendant resold them across the counter in precisely the same condition they were supplied to him by the wholesale firm. If defendant satisfied his Lordship of that there would be no evidence of negligence against defendant. He supplied other people from the same bottles as Mrs. Holt was served, and there had been no other complaint. The hearing was adjourned.

A PRICKLY-HEAT LOTION.—In a recent issue of the "Times of India," the following recipe for prickly heat is given: Eau de Cologne, 2 teaspoonfuls; solution of mercury perchloride (1 in 2,000), 10 oz. To be dabbed on the skin and allowed to dry, after which a powder consisting of equal parts of boric acid and talc should be dusted on.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

LANGHAMS (BIRMINGHAM), LTD. (P.C.).—Capital, £500. Objects: To carry on the business of chemists, druggists, drysalts, herbalists, etc. R.O.: 34 International Exchange, Edmund Street, Birmingham.

GOULDEN & ALLEN, LTD. (P.C.).—Capital, £1,500. Objects: To carry on the business of chemists and druggists, etc., and to adopt an agreement with E. E. Allen. The first directors are: E. E. Allen and C. E. and Mrs. C. E. Allen, 93 Widmore Road, Bromley. R.O.: 3 Widmore Road, Bromley.

WINTERS' CHEMISTS, LTD. (P.C.).—Capital, £1,000. Objects: To carry on the business of pharmacists, chemists, druggists, herbalists, etc. The first directors are: J. A. Thompson, 48 The Broadway, London Fields, E. 8.; and S. T. T. Patkinson, 324 Bethnal Green Road, E. 2. R.O.: 69 Downs Road, Clapton, London, E. 5.

WEST AFRICAN DRUG COMPANY, LTD. (P.C.).—Capital £25,000. Objects: To carry on the business of chemists, druggists, drysalts, oil and colour merchants, importers and exporters, and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations, etc. R.O.: African House, 6 Water Street, Liverpool.

GIBBS OIL PRODUCTS, LTD. (P.C.).—Capital, £1,500. Objects: To carry on the business of manufacturers of polish for boots, etc., manufacturers of oleo-margarine, soap, perfume and varnish and disinfectants, of chemists, drysalts, spirit distillers, etc. The first directors are: H. A. Gibbs, 9 John Street, Handsworth; T. Gould, 337 Victoria Road, Aston Manor, Birmingham. R.O.: 46A Billhay Street, West Bromwich.

M. D. REMEDY CO., LTD. (P.C.).—Capital, £100. Objects: To carry on the business of manufacturers and importers of and dealers in medicines and proprietary articles, etc. The first directors are: A. J. Courtney and H. C. Courtney. R.O.: 4 Regent Street, London, S.W. 1.

G. & J. THOMSON, LTD. (P.C.).—Capital, £2,000. Objects: To carry on the businesses of manufacturing and analytical chemists, oil refiners, packers, shippers, exporters, contractors, storekeepers, warehousemen, etc. The first directors are: J. B. Thomson and W. M. Alexander. R.O.: 85 Colvend Street, Bridgeton, Glasgow.

ELSTREE CHEMICAL WORKS (1922), LTD. (P.C.).—Capital, £20,000. Objects: To carry on the business of manufacturers of and dealers in nitrogenous meal for manures, nitrogenous fertilisers, nitrolim (calcium by anamide), carbide of calcium, ammonia, nitric acid, chemical, industrial, agricultural, and other preparations, etc. R.O.: Imperial Buildings, Ludgate Circus, London, E.C.

UNIVERSAL CHEMICAL CO., LTD. (P.C.).—Capital, £5,000. Objects: To carry on the business of manufacturers, exporters and importers of, agents for and dealers in chemicals, chemical products, medical, surgical, and dental instruments, appliances, and supplies, chemists' and druggists' sundries, etc. Solicitors: Herbert Oppenheimer, Nathan & Vandyke, 1 Finsbury Square, London, E.C.

Coming Events

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, May 24

Manchester Pharmaceutical Golfing Society.—Match: Manchester v. Liverpool, at the Chorlton Golf Club, Manchester.

Thursday, May 25

London (Western) Pharmacists' Association, Pinoli's Restaurant, Wardour Street, at 8.45 p.m. Annual meeting.

Retail Pharmacists' Union (West London Branch), Pinoli's Restaurant, Wardour Street, at 8 p.m. Meeting.

Pharmaceutical Society of Ireland

Council-meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on May 9, Dr. A. J. Barnes, President, in the chair. The following members of the Council were also present: Mr. Richard Blair (Vice-President), Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. G. D. Beggs, J.P. (hon. treasurer), W. F. Wells, G. A. McLean Lee, A. H. Oliphant, James A. Doyle, D. M. Watson, Victor E. Hanna, and J. Michie.

THE BRITISH PHARMACEUTICAL CONFERENCE

The Registrar (Mr. A. T. Ferrall) submitted a communication from Mr. R. R. Bennett, hon. secretary, trusting that in accordance with the usual custom the Council would send delegates to the British Pharmaceutical Conference to be held in Nottingham from July 24 to 27. Mr. W. F. Wells and Mr. Victor E. Hanna were appointed delegates.

The President said mention of the subject reminded him of a suggestion he had made there a couple of years ago. At one of the annual meetings of the Society one of their Belfast members was very anxious to have the annual meetings held alternately in the big towns of Ireland. Though he (the President) believed they had legal power to do that, there were great difficulties in the way of it; and the suggestion made by him at the time as a compromise appeared to find great favour. It was to form an Irish Pharmaceutical Conference to meet in a different town in Ireland each year exactly on the same lines as the British Conference. He thought the time was opportune for forming some such body as that.

EXAMINATION MATTERS

The Registrar submitted reports from the examiners, from which it appeared that for the Preliminary examination there were forty-three candidates, of whom twenty-seven passed, one with honours. The second-best candidate got an honours total, but failed to secure 50 per cent. in one subject. There were five "ties," in one of which there were five candidates. Fourteen ladies passed out of twenty-three, and thirteen boys passed out of twenty. For the Pharmaceutical Licence examination nineteen candidates presented themselves. Ten passed, four with honours and two with silver medal marks. For the Pharmaceutical Assistant qualification three candidates presented themselves and one passed. At the Registered Druggist examination in Dublin six candidates presented themselves, five of whom passed. At the Registered Druggist examination in Belfast six candidates presented themselves and four passed.

The Pharmaceutical Licences of the following were sealed: S. Porter, J. Reid, M. Mahony, J. K. Murray, J. A. McConnell, Agnes E. McKinney, D. F. Walsh, E. J. R. Evans, T. W. Kerr, and S. Gamble.

The following submitted certificates from the Intermediate Education Board and were admitted to Preliminary registration: Miss Irene F. A. Gibson, Brookfield Villas, College Road, Cork; Mr. Peter Brady, Magee's Medical Hall, Kells, co. Meath; and Mr. P. J. Carragher, Main Street, Castleblayney, co. Monaghan.

On the motion of Mr. Beggs, seconded by Mr. Wells, Mr. R. Mellon, M.P.S.I., was re-elected an examiner in pharmacy.

OTHER BUSINESS

The Registrar reported the death of Mr. David Gray, Ph.C., Dunmanway, co. Cork.

The following wrote notifying changes in their addresses: Dr. R. M. Bronte, Ph.C., to 47 Gayton Road, Harrow, London; Mr. P. T. Callanan, Ph.C., to 35 Wicklow Street, Dublin; and Mr. Joseph J. Travers, Ph.C., to 59 Strand Road, Sandymount, co. Dublin.

Reports from the Law Committee, the House Committee, and the Special Education Committee were considered and adopted.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Eighty-first Annual Meeting

THE DINNER

THE annual dinner of the Pharmaceutical Society of Great Britain, held at the Connaught Rooms, London, W.C., on May 16, marked a reversion to type in two respects. It was fixed, as of old, for the eve of the annual meeting, and it had regained much of the sociable character of a generation ago. Last year's ceremonial function in the same hall recalled the familiar *mot* of a banquet in a duke's house with the duke lying dead upstairs. This year all was changed. The dinner itself was of the excellence customary at this resort of *gourmets*, the music was light and well varied, and the speeches, as a whole, were models of what after-dinner utterances should be. The Home Secretary delighted his audience with a finely-phrased tribute to pharmacy, and with consummate tact suggested that the Dangerous Drugs Act Regulations might easily have been worse. The President of the Society had a difficult task in following so brilliant a master of his art, and has perhaps been heard to greater advantage. The other speakers were Mr. C. A. Hill, Sir Anthony Bowlby, and Sir William Willcox, each of whom made some telling points. The music was contributed by Miss Bessie Jones, Miss Awrddolen Williams, Mr. Walter Glynn, Mr. Stanley Davies and the London Welsh Male Choir, with Mr. Edgar Jones, F.R.C.O., at the piano. The choir, a body with a finely sonorous ensemble, gave great pleasure to the gathering, and was prevailed upon to add a special "turn." "And then," remarked a member of the Council, "we ordered some Scotch." The following is a list of the guests:

Andrews, Miss C. A.
Antcliffe, H.
Armitage, W.
Atkinson, A. P.
Atkinson, J. W.
Barlow, T. O.
Bascombe, F.
Bayles, H.
Bayley, C.
Beardsley, W. J.
Beaton, E.
Bennett, R. R.
Bilson, F. E.
Bonner, C. G.
Borrowman, Miss A. T.
Bowlby, Sir Anthony A.,
K.C.B., K.C.M.G.,
K.C.V.O.
Boyes, G. R.
Boyes, W. J.
Braithwaite, Miss D. M.
Brown, A. M.
Browne, Frank
Browne, W.
Bunting, H. F.
Chalmers, W.
Chapman, H. E.
Cofman-Nicoresti, J.
Cooper, A. J. Bullen
Corfield, C. E.
Cox, A., M.B., O.B.E.
Crossley-Holland, Dr. F. W.
Cuff, J. Harcombe
Delevingne, Sir Malcolm,
K.C.B.
Douglas, Edgar
Douglas, J. Wellesley
Downing, J.
Ellerington, J. P.

Fairweather, J. Y.
Falding, W. B.
Farr, E. H.
Finnemore, H.
Fouracre, R.
Francis, Alan
Francis, G. Bult
Freke, Mrs. A.
Furniss, A. S.
Gamble, F. W.
Gerrard, A. W.
Gibson, F. J.
Gilmour, J. P.
Glyn-Jones, H.
Glyn-Jones, Sir William
Gosling, C. W.
Greenish, Professor H. G.
Gulliver, W. F.
Gunn, A.
Hamerton, J.
Hampshire, C. H.
Heslop, Major C. W. B.
Hill, Dr. A. W., F.R.S.
Hill, C. A.
Hill, J. Rutherford
Hills, J. Stuart
Hines, Frank G.
Hobbs, A. E.
Hobday, Professor F. T. G.,
C.M.G., F.R.C.V.S.
Hocking, F. A., M.B.E.
Hodgkinson, Miss E.
Hornblow, Miss Kate
Irvine, Mrs. J. K.
Jackson, Dr. Henry
Jenkin, A. H.
Jennings, J. A.
Jinks, J. C., M.C.
Jones, Edgar

Keall, John
Keith, A. B.
Kiley, J. D., M.P.
Kluge, H. J.
Latreille, A.
Lescher, T. Edward, O.B.E.
Lincolne, W.
Lloyd, H. O.
Lloyd, Isaac T.
Lucas, E. W., C.B.E.
Lusher-Pentney, G. J. M.
Mallinson, G. A.
Marns, Thomas
Martin, Harry
Martindale, Dr. W. H.
Melhuish, A. R.
Mellor, E.
Michie, C. Coutts
Millard, E. J.
Milner, J.
Moore, J. E. Langford
Neathercoat, E. T.
Noble, C. A.
Noble, John
Parry, L. Moreton
Payne, A., F.R.C.V.S.
Peck, E. Saville
Peck, J. Wicliffe
Phillips, A. J.
Poole, Jeffrey
Preston, Lt.-Col. A. C.
Prince, H. A.
Quarrell, W. H.
Robinson, Sir Arthur,
K.C.B.

Robinson, R. A.
Roe, G.
Rowland, Sir Leonard
Rowsell, P. F.
Rundle, Charles
Sargeant, F. Pilkington
Sayers, W. C.
Schollar, N. Howard
Sharples, Miss B.
Shirldiff, W. E. D.
Shortt, Rt. Hon. Edward,
K.C., M.P.
Skinner, H.
Sproule, Miss R.
Taylor, T. Morley
"The Daily Telegraph"
"The Times"
Thompson, J. A.
Tickle, T.
Tilden, Sir W. A., F.R.S.
Tocher, G. A.
Truman, F. W.
Wallis, T. E.
Want, W. P.
Wells, W.
White, E.
Willcox, Sir W. H., C.M.G.,
K.C.I.E.
Winfrey, Sir Richard, M.P.
Wing, A. J.
Wood, Sir Kingsley, M.P.
Woodward, Dr. Smith,
F.R.S.
Woolcock, W. J. U., M.P.,
C.B.E.

The Speeches

Mr. E. Shortt, K.C., M.P., Secretary of State for the Home Department, proposed the toast "The Pharmaceutical Society of Great Britain." He said: I can assure you that it is a very great pleasure to me to have the privilege conferred upon me of proposing this toast, which any guest might be proud to propose. After all, you are not in your first youth; you are not a very young society. I don't know exactly how many years you reckon, but according to human computation of human life, if you were mere human beings you would be on the very verge of the grave. (Laughter and "Hear, hear.") But being a society and not mere human beings you are, in spite of your seventy-odd years, in the virile manhood of middle age. I can assure you I have read with the greatest appreciation the report of your work in the past year. After all, it is a society like yours which makes an agglomeration of human beings into a great profession, and I take it that every one of you who belong to this Society desires to make your profession a great profession. And your Society is the way in which it can be done. I believe that one of the best works which your Society performs is that of keeping up the high standard of attainment which is necessary to membership of your body. (Hear, hear.) And it is also a very admirable characteristic that anyone who studies pharmacy and chemistry, and can pass the necessary examinations and show the necessary qualifications, is entitled as a right to belong to your Society. It is not only those who have attained great positions—who have already achieved success—who are qualified to be members, but the young, the beginner, the struggler—they also can join your Society and obtain the help which it can give. That, to my mind, is a very great matter for your profession. It is an added delight to me tonight to have this privilege and honour, in that your Society is, perhaps, more closely connected with the Home Office than with any other Government Department. (Applause and laughter.) Sometimes it is a little difficult. (More laughter.) I hardly dare speak, except

in the most whispered humbleness, in the presence of my old friend, Sir William Glyn-Jones—(laughter)—but even in his presence I venture—and heaven knows what courage it needs—(great laughter)—I venture to say “Dangerous Drugs Regulations.” (Hear, hear.) Well, I have said it and survived. You denounced us—some of you—last year and the year before; and Sir William Glyn-Jones said I was the greatest scoundrel on the face of the earth, and I told him he was another. (Laughter and “Hear, hear.”) But you may take it from me that if we had not got those Regulations through when we did, and if you had had your cocaine and all your dope stunt in the Press, you would have had far worse Regulations than we gave you. But, joking apart, we did on some details differ, but both of us have the same object in view—namely, the public good. I believe that both of us absolutely eschewed any selfish motives, and you had no selfish motives in the opposition you made to the Regulations which were imposed. We both had in view two things—the maximum of safety for the public and the minimum of inconvenience for those who have to prescribe and dispense drugs. (Hear, hear.) I don’t think that Sir Malcolm Delevingne would claim that our Regulations were perfect. But I believe he would say with regard to the Regulations, for which he was chiefly responsible—and I give him full credit for that, because I know how good they were, and it is an act of unselfishness on my part to say that they were his and not mine—he would join with me in acknowledging most gratefully the loyal, whole-hearted way in which your Society helped us when they came into force. You had your point of view and we had ours. In the Home Office, perhaps, we exaggerated what the maximum of public safety might be, but I know that you exaggerated what the minimum of difficulty to your profession might be. But the fact remains that we made the Regulations, and the loyalty with which they have been carried out fills every one of us in the Home Office with gratitude. (Hear, hear.) So long as those Regulations go on I see nothing looming dark in the future. I know we are at a period now when everything is supposed to be dark and dim and going down to destruction. But somehow or other this old country comes out right in the end, and so long as we have men who are keen on their profession for their profession’s sake, and keen about carrying out all the rules and etiquette of the profession through a sense of loyalty, our old country is all right. (Applause.) I believe your Society will do as good work in the future as it has done in the past. (Hear, hear.)

TRAFFIC IN DRUGS OF ADDICTION

We have undoubtedly before us a very difficult question—namely, the question of drugs like cocaine and others of that description. It is partly—indeed, largely—a police matter, and yet I am sure every one of you will appreciate how difficult it is for the police to detect dangerous drugs which are being brought into the country. They can be put into such small space, they are so easily hidden, that it is difficult to detect any suspicious sign in a person who may be carrying them here. It will be a difficult police question so long as you allow unrestricted production to go on in the various countries. What we must look to is international agreements on restriction of production, and when we are able to get those we shall be able to check this horrible drug danger. But, believe me, this danger is not so great as it is represented to be. Like many another thing, it has been taken up and exaggerated, and people who do not know get an absolutely disproportionate view with regard to it. I appreciate the danger, and I don’t belittle it. Never a day comes but our police are devoting their energies to crushing out this awful evil, but I believe the greatest safeguard is international regulation and international restriction of production. (Applause.) In proposing this, to which I attach the highest importance, I should like to express my appreciation of the work of your Society, and the loyal, whole-hearted, and patriotic way in which you support us at the Home Office. (Applause.)

THE PRESIDENT’S VIEWS ON THE SOCIETY

The President, responding, thanked the Home Secretary for the kind references he had made to the work of the Society. He sometimes thought that the outside public knew very little of what the Society had been doing, and he supposed it was because of that limited knowledge that the general public could not arrive at a proper assessment of the value of the asset which it possessed in the pharmacists of the country. The members of the Society had to carry out every day, and very often during certain parts of the night, quite unostentatiously, most valuable duties and functions in connection with the health of the public. Dealing with the question, “What is the Society?” the President went on to refer to its constitution and equipment, emphasising the steps taken in recent years to bring it up to the level of the great advancement in general education. In a passing reference to the School, he paid a cordial tribute to the work of Professor Greenish. With regard to the Society’s connection with the Army and Navy, the President said the Society was hoping that in some future reorganisation of the Army provision would be made for an Army Pharmaceutical Service Corps, or something of a similar kind, so as to bring the British Army more into line in that direction with some of the Continental armies. (Hear, hear.) “Some little time ago,” said the President, “the Army Council set up a joint committee at the request of the Society. The committee consisted of representatives of the War Office as well as the Society, and the report of that committee has been sent in to the Army Council; but for reasons of financial stringency and questions of economy the Army Council have not been able to proceed any further with the matter at the present time. Of course, we all sympathise with the reasons for the delay. As a matter of fact, we welcome them as a most healthy sign in a Government Department. But the matter cannot be allowed to rest there, and I hope that at a later stage something further will be done, and a much-needed advance will be made in the position which pharmacy has occupied in the British Army with a corresponding benefit to the Service itself.” As far as he himself was concerned, his own opinion was that certainly not all the lessons of the war would have been learned and acted upon until in both Army and Navy some special section was given to pharmacists with some specialised duties to perform, and certainly not until pharmacists were given what he considered to be their rightful duties and their right rank in the supply and distribution of medical and surgical requirements for the armed forces of the Crown, both in peace and war, would everything have been done that should be done. (Applause.)

CORDIAL RELATIONS WITH THE HOME OFFICE

He entirely shared the views of the Home Secretary as to the cordial character of the relations of the Home Office and the Society, and he hoped that they would continue to be of a mutually satisfactory character. Of course, such a statement should not be taken to mean that the Society had always found itself in unqualified agreement with all the decisions which the Department had chosen to make. The Society had been brought in close touch with the Department in connection with the Dangerous Drugs Act and its Regulations. The Home Secretary was right in assuming that those Draft Regulations originally issued had, to put it mildly, created a certain amount of perturbation among pharmacists, and that was shared by the medical profession as well. He mentioned that in order that it would be assumed that there was a certain amount of justification for that feeling, but they all recognised that the Home Office was endeavouring to deal with a great national evil, and they felt that, although the Regulations which were eventually made did impose onerous and in many cases difficult conditions upon the writing and dispensing of prescriptions, yet as a statutory Society they recognised that the Regulations were the law of the land, and as a professional body they realised that, over and beyond everything else, there was the larger question of the public interest, and, therefore, that it was up to

everybody to see that every loyal endeavour was made to carry out the Regulations. So far as his Society was concerned they were only too anxious to co-operate with the Department in seeing that the Regulations were carried out as smoothly, fairly, and stringently as the occasion demanded. Turning to the domestic side of the Society's work, the President referred to the many changes which had taken place recently in connection with the organisation of the Society throughout the country. They had just now a big scheme on for the formation of branches of the Society in various places, which they hoped would form rallying-ground for the Society in every part of the country. The Society proposed to hold a great national pharmaceutical conference, which would be held annually in some part of the country, for the purpose of consolidating the membership of the Society and for the promotion of scientific research. The first conference would be held in London next year, and it was the intention of the Society to invite the International Pharmaceutical Federation to hold their meeting in London at the same time. The international organisation drew its membership from practically all European countries and also from America, and the Society hoped to arrange this joint conference so that they could do something to bring about a uniformity in pharmaceutical practice throughout the world. (Applause.)

"THE GUESTS"

Mr. C. A. Hill, B.Sc., F.I.C., proposed the toast of "The Guests," and alluded in interesting fashion to the gentlemen representing the various learned and professional bodies. They were glad, he said, to find Sir Anthony Bowlby present, while there was another familiar face at the top table—that of Sir William Willcox. Then there was his friend, Dr. Cox, of the British Medical Association; the Ministry of Health was well represented, for they had Sir Arthur Robinson and also Sir Kingsley Wood, the Parliamentary Secretary to the Ministry. He supposed the Ministry might be regarded as the stepping-stone between the medical profession and the Government Departments. The Government Departments, however, were thick upon the Society that evening, for they had present a real live Cabinet Minister, and there ought to have been two. The Minister of Education (Mr. A. L. Fisher) came from the same school as he (the speaker), and had the reputation of being the best Education Minister the country had ever had. Many of those present had on more than one occasion within the last year or two visited Sir Malcolm Delevingne, who had done his very best to make the tiresome Act of Parliament referred to by the Home Secretary almost workable. (Laughter.) The legal profession was not directly represented that evening; perhaps that was lucky, because it was rather difficult to find anything nice to say about the Law. (Laughter.) But there were many M.P.'s, and they must not forget to extend a welcome to Sir Richard Winfrey, who had always been a friend of pharmacy, and to another M.P. masquerading as a guest—Mr. Woolcock. Pure science was represented by Sir William Tilden, and it was ever a delight to welcome Sir William—an old Bell scholar and one-time pharmacist who became one of our most eminent chemists—still young, and they hoped to see him for many years to come. There were many other distinguished guests who were all included in the toast, and he wished them health and prosperity. (Applause.)

Sir Anthony Bowlby, President, Royal College of Surgeons, replied. He referred to the close companionship between pharmacy and surgery. He happened to belong to a body which existed eight hundred years ago—St. Bartholomew's Hospital. He had recently been reading in a book written by an old friend and pupil of his, Dr. E. G. Browne, some details of the practice of those days in the land of Haroun al Raschid. The Court Physician was not an ill-paid member, for he received a fee of £4,000 every spring for administering a draught and bleeding, and that fee was supplemented by a refresher of another £4,000 in October. In addition to that, as he was a fashionable physician of the day, the

notables of the day joined in subscribing £30,000, so that, whatever complaints there were in ancient days, there was nothing to complain of in regard to fees. (Laughter.) When the physician ministered to the needs of a foreign potentate, part of his payments were a male slave, a female slave, £2,000 a year for life, and 200 ass-loads of corn per annum. It would have been interesting to see this corn distributed in Harley Street at the present day. Allusion had been made to the equipment of armies in the war, and he had been astonished at the small proportion of the whole cost of the war which had been spent on the equipment of the medical services. The first volume of the medical history of the war showed that the total amount of money spent upon medical equipment, from a pin to a bedstead, from a teaspoon to a cart, was not as much as two days' cost of the war. The latter cost from five to seven millions a day, and the total amount spent on medical and surgical equipment was a little over twelve millions. "When one reads that, one regrets that one did not ask for more than one did," said Sir Anthony. When he was in France he was in charge of a surgical department as near the front as possible, and tried to get as much as he could for the comfort and well-being of the troops. But he was always told that supplies were likely to be lost and destroyed, and reminded of the need for economy. He pointed out to the authorities, however, that while their job might be economy, his was efficiency, and when he came to realise, at the end of the war, that only two days' cost of the whole campaign went on medical and surgical equipment, he could only feel that he did not ask enough. (Applause.)

SIR WILLIAM WILLCOX'S TRIBUTE

Sir William Willcox submitted the toast of "The Chairman," and mentioned that he (Sir William) had the pleasing duty of being the visitor for the Privy Council to the examinations of the Society. He never gave notice of his approaching visit, and dropped in at all times, and he could say that the examinations were always conducted so admirably that there was no need for criticism. The Society kept its finger on the pulse of scientific and medical progress, and the examinations were conducted so as to meet the advances that were made. Fairness and kindness to the candidates were the characteristic of the Society. The Chairman had distinguished himself as a man of affairs and marked ability, and during the war did very good work in promoting recruiting. During the two years he had been in office the Society had made a record number of members, and as skipper of the ship of pharmacy he had had to steer the vessel through very difficult waters. This he had been able to do without having any trouble from cabin-boys. (Laughter.) At various times pharmacy had been threatened by various movements intended to supplant it, but it was not going to be supplanted by any of these new things. One striking feature of those who were at the head of pharmacy at the present time was the way in which they were keeping abreast of modern developments in therapeutics, and he had no doubt that whatever further developments there were the Society would be able to meet them.

The President, in the course of a brief reply, remarked that his public work was originally a hobby, but had now become almost an obsession. (Laughter.) He was always very proud of the Society's history.

The proceedings terminated with music.

ANNUAL MEETING

Fifteen minutes before the Pharmaceutical Society's annual meeting on May 17 commenced there was not one member's signature on any of the folio sheets neatly disposed on a table between the office and the lecture-theatre. By the time the President took the chair, however, an audience of average size had assembled. On his right at the table were the Vice-President (Mr. F. P. Sargeant) and the treasurer (Mr. F. E. Bilson); and on his left sat the secretary (Sir William Glyn-Jones), the Society's solicitor (Mr. W. H. Quarrell), the resident secretary for

Scotland (Mr. J. Rutherford Hill), the editor of "The Pharmaceutical Journal" (Mr. J. P. Gilmour), and the assistant secretary (Mr. A. J. Chater). In the seats allotted to the Council sat Messrs. Antcliffe, Campkin, Hines, Keall, Keith, Lloyd, Melhuish, Parry, Rowsell, Skinner, White, and Wolff; and among the audience were Mr. J. G. Atkinson, Mr. Frank Browne, Mr. R. Feaver Clarke, Dr. F. W. Crossley-Holland, Mr. H. Finmore, Mr. H. Wippell Gadd, Mr. A. W. Gerrard, Professor H. G. Greenish, Mr. H. M. Hirst, Mr. I. T. Lloyd, Mr. James Mackenzie, Mr. John Noble, Mr. John H. Robinson, Mr. R. A. Robinson, Mr. G. Roe, and Mr. N. H. Schollar.

The President, who was manifestly troubled by a cold, spoke till a quarter to one in amplification of and comment upon the Society's report. In the full report which we give below the more interesting passages will be seen in their context, and it is unnecessary to pick them out. His remarks on the Qualifying examination, the Society's "Journal," the Home Office and the reorganisation scheme will, no doubt, be read with the attention they deserve. A discussion of a length unknown for some years past followed. Mr. James Mackenzie, Edinburgh, had some searching questions to put on certain details of the report, and made incidental reference to the spacious days of the *Carteighe régime*. Mr. H. Wippell Gadd was severe on the subject of the "parsimonious provision" for the Society's curator and on the state of the Library. Mr. John H. Robinson, Liverpool, made one of his attractive and amusing speeches, subtly blending the powder of criticism with the jam of rollicking humour. Mr. Schollar, Mr. John Ingham, Mr. I. T. Lloyd, and Mr. H. M. Hirst criticised the Society from different points of view, and Mr. A. W. Gerrard emphatically held that pharmacy had bettered itself of late years, and was likely to continue doing so. When the President had replied and the customary routine appointments had been made it was eight minutes past two, and there was a general and rapid search for the exits. For the first time for many years, if not absolutely, a vote of thanks to the President for his services in the chair was omitted.

The President's Speech

The President, in moving the adoption of the report, said: I think it can be said of it that as on previous occasions it is a perfectly clear one and comprehensive in its character, so that perhaps it will not be necessary for me to add a great deal in the way of supplementary remarks. But it has been the practice of the President of the Society to make some little additional review of the year's work of the Council in moving the adoption of the report and in meeting the members of the Society. I said last year, when it was my privilege to move the report, that we had passed through a fairly critical and fairly eventful year. Exactly the same thing can be said with regard to the year which is covered by the report. This year we have had the introduction of one or two things which have made the year critical and eventful. There is the question of the Dangerous Drugs Act Regulations and the necessary reorganisation in the Society's forces brought about by the decision in the test case. I think we can say that the operations during the year have been on a fairly large scale, but, looking back over the work of the Society generally, I think we can find considerable ground for satisfaction, and we find that from the point of view of membership and also its financial position, as well as from the point of view of its political position, the Society is in a very satisfactory condition, and the members of the Council have every reason to meet the members here in quite a good heart as far as the Society is concerned. Our membership is higher than it has ever been before in the history of the Society. We have a

membership referred to in the report of 10,954, an increase on the previous year of 151. Student associates number somewhere over 2,000, and this support of the Society, it is hardly necessary to remind you, has been maintained despite the fact that there was incidentally an increase in the membership subscription. The Secretary tells me that in connection with the election of the Council that is taking place more voting papers have been issued this year than on any previous occasion. Dealing with finance, the income of the Society was somewhere about £47,000, and the expenditure has amounted to somewhere near £39,000, so that I think you will agree that the operations of the Society, compared with pre-war years, have been on a fairly large scale during the last year. It is unnecessary for me to refer to the causes which have brought about this increase in the size of the Society's work, and the increase of the figures in the money we have had to deal with. But, as you will know, special conditions are prevailing, have prevailed, and are continuing to prevail in connection with the Society. With regard to special funds, I think it can be said we have been during the last two years anticipating the income of the Society perhaps for several years to come. I mention that as a note of warning, because, as you will probably notice, the Society added about £8,000 to their accumulated funds, but as against that figure we have been anticipating our income for the next few years in view of the fact that many of our students during the war years were unable to take their examinations, and the consequence is that the amount of money has been carried forward and brought into the accounts of the last year or two of the Society's figures. Against the figure of the money that has been carried forward to the accumulated funds of the Society we had to spend last year a large sum of money on external and internal decorations and repairs, and we shall have to spend probably this year almost as large a sum. Last year it was somewhere about £3,000, so that I have pronounced a note of warning as really necessary because we might perhaps be led, in view of the fact that we have added this money to our accumulated funds, to assume that this state of affairs might go on for ever. But the Council is keeping a very strict control over the expenditure of the Society, and they will continue to exercise such economies as prudence and business judgment may demand. But in connection with a society such as this we shall have to be quite careful that we do not diminish the Society as a statutory body or as an association of voluntary individuals, which we are. The question of pharmaceutical education has been receiving a good deal of attention at the hands of the Council during the year. The inspection of the schools and teaching institutions which the Council approve has been carried on and continued in the last twelve months, and the Education Committee have the whole question of the educational standard and the syllabus for our examinations under review at the present time. Every member of the Society will realise that the educational policy of the Society cannot possibly stand still. Changes are taking place in the educational standards of the country, and an advance is going on in our general education, and it is only natural that they will reflect on the Society's standards. That applies to our Preliminary examination. At the present time the secondary schools are turning out students who can take a much higher standard for the Society's Preliminary than has been in operation up to now. Again, in Part I. of the examination. In several of our technical schools, in all parts of the country, science students are able to cover the ground for Part I. of the examination. That has made it necessary for the Society to consider the question of what shall be included in Part I. in order that the syllabus can come within the scope of the science students in our technical schools. That means possibly the transference to Part II. of some of the more technical subjects, such as pharmaceutical chemistry. At the same time they are taking advantage of the occasion to go into the whole question of the methods of the examination and the syllabus of the examination generally. I have seen it commented upon in the Pharmaceutical Press that there is a certain amount of alarm over this matter, and

it is suggested that we have made the examination much more difficult for the students than in the past. Such is not the case, and it is not the intention of the Council as at present advised. We are reviewing and in some cases revising our educational methods, but it will not be the case that properly trained students—those who have gone through our curriculum—will have greater difficulty in passing the examinations than was the case up to now. All the Society is doing now is, we are bringing our educational matters into line with the general advance of educational standards of the country. And I believe we shall have the support of the members for the School. Just a word about the School. Of necessity we had to make emergency arrangements, but at the present time we have got back to normal. The School is full and the higher degree of efficiency continues, and the great traditions which the School holds in the pharmaceutical world are being well maintained. The School is well looked after by the Dean, Professor Greenish, and can be considered to be one of the assets of the Society. Our evening meetings started again this year and achieved a very large measure of success. They were well attended, and the Society has been fortunate in securing eminent gentlemen, and I judge from the attendances and the remarks throughout the country that the meetings have helped the Society's work generally.

THE "JOURNAL"

The Journal position is dealt with fairly fully in the report, but I have always considered that in making reference to it no account is ever taken of the fact, and no credit passed to it for the fact that it is sent out free to the members of the Society. No amount is credited to the Journal Fund of what might be called the annual subscription. As for what you might consider an adverse balance, I ask you to realise that to produce the weekly Journal, which you are going to distribute gratuitously to members, apart altogether from student associates, that is an undertaking which cannot be possibly accomplished without very considerable expenditure. Production costs remain, I believe, very much the same as in the preceding year. Paper is certainly cheaper, but postage is double, and other costs the same, and with the larger circulation which the Journal gets as our membership increases comes increased cost: that associated with the general slump in trade which must have affected our advertising pages is quite sufficient to justify what I say—namely, that a considerable expenditure must be incurred in a Journal such as this. It has never been considered as a trade concern. It has a value apart from its position as a technical paper. It has never been the policy of the Council to run it as a purely commercial concern, but that is no reason why ordinary business methods should not be applied, and such methods are being adopted at the present time. The chairman of the Journal Committee, Mr. Skinner, and the members of the Committee will see that attention is given to it. An official Journal has scientific, educational, and professional functions—all of them most important functions—to fulfil, altogether apart from what you might consider to be an ordinary trade Journal in pharmacy. It is the weekly medium of the pharmaceutical members, and is bound to be considered as a considerable asset to the members of the Society. The Journal is the members' property, and it is up to them to see that it increases from the point of view of an asset. With regard to the Dangerous Drugs Act, the Society has been giving tremendous attention to this matter practically all through the twelve months. We quite realise that the conditions brought about have imposed very onerous and difficult conditions upon the dispensing of prescriptions, but I know that the members take the view of the Council that in this matter there is a far bigger thing than a mere technical or sectional difficulty. There is a big question beyond this—the great public interest is concerned—and the Home Office were attempting to deal with a great national evil in framing the Regulations. It is up to the members of the Society

to see that the Regulations are carried out as faithfully as possible. There is a strong bond of co-operation between the Home Office and the Society in connection with the interpretation of the Regulations, and I think we are justified in saying that the Regulations are being administered, bearing in mind the difficult circumstances, in a way that is giving probably the maximum of benefit to the national and public interests with the minimum of inconvenience to the pharmacists and the medical profession throughout the country. I hope that will be found to be the case. It is the policy of the Council, and I think the members will see that we are justified in taking that attitude. To come to the Codex. The Council is engaged in a revision of the British Pharmaceutical Codex, and it is hoped by the early part of next year the new edition will be published. Considerable progress has already been made, and in the meantime the Council has published a supplement to the Codex which deals with the authoritative standards for surgical dressings. I think you will agree that there has been some need for some such standards, and the fact that the Ministry of Health has intervened has justified the Council. We hope it will prove of service not only to the members, but to medical men and all who are brought into touch with surgical dressings throughout the country. Reference is made in the report to pharmaceutical service in the Army, and it sets out fairly fully what the Society has done in that regard.

PHARMACY IN THE ARMY

We have been for many years persistent in our efforts to bring the real position in front of the Army Council and War Office, and, as the report states, a joint committee was set up by the Army Council about twelve months ago to consider the position. I think the whole of the Pharmaceutical Society is indebted to those appointed on that committee for the amount of work they put in for the Society generally. On the grounds of economy, the Army Council have been unable to put into operation the recommendations of that report. The Council regrets the delay, but the matter cannot be allowed to rest there. The Council will have to press it and intends to do so. One hopes that the result of the pressure will be, at any rate, a much-needed improvement in the position of pharmacists in the Army.

WAR AUXILIARY BENEVOLENT FUND

At the last annual meeting I think I gave an undertaking that a report of the work of the fund should be made public. In October last year the report was made public. It was circulated to our local societies throughout the country, and was put in the Journal. The Council is well aware that there is an opinion in the country that greater publicity should be given to what has been done in connection with the fund. I think all of us have a certain amount of sympathy with that course, but everyone of us realises that one of the great advantages of a fund such as this is that it is able to do its work fairly quietly and fairly privately, and such help as it is able to give is not at once made public. In all such funds the great essential of the administration is privacy, so that those who get the benefit do not get paraded throughout the country. The administration of the fund, we are convinced, is being carried out by the Committee regularly, and it reports to the Council. It has faithfully discharged, and is still so doing, its duties to pharmaceutical ex-Service men and their dependents. We are certain that we are also carrying out all the obligations covered by the original reference when the Committee was set up, and the objects of the definitely expressed wishes of the subscribers to the fund. In the opinion of my colleagues and myself this fund is a magnificent tribute to the pharmacists of the country. It is a true war memorial, and but for the fact that the conditions changed entirely from the time when the fund was raised to the time we were able to use it there would have been no departure from the original practice. The Government intervened with far more elaborate and generous terms, and with a far bigger reference than that which led to the starting of the fund. And the Council

were justified in seeing that the large sum of money obtained for the benefit of pharmaceutical ex-Service men was applied in the way the Government intended. Something like £300,000 was devoted to pharmaceutical ex-Service men, and, that money being administered through the Society, there was not the call on the fund. I have seen and heard of in the pharmaceutical Press certain complaints and comments in the country with regard to the fund. I don't know that it is general. I believe a great part of the activity is on the East Anglian front, but I suppose it will spread to other parts of the country unless the country is satisfied that the attitude of the Society is right. The comment is made that there is a certain amount of complaint of parsimony in the administration. The other form of comment has been bigger, and deals with the capital amount of the fund. Now, with regard to the complaint of parsimony. I think you will agree that in no circumstances can we allow such complaints to be made without asking at once for complete evidence of details. It is the desire of the Council to investigate any one of those complaints. I suggest this morning that if anybody has evidence of that sort it is their duty to the subscribers of the Society to see that the complaint is entered so that it can be investigated. I adopt an entirely different attitude to the other question of the disposal of the capital of the fund. Here there may be ground for an honest difference of opinion, and I agree that the future policy of the Society with regard to the fund must be gone into at an early date, and the Council would welcome any suggestion made by any pharmacist, local association, or branch of the Society in the country that can be made that has any backing behind it as a means of helping us to solve the problem. The whole question is hemmed in with difficulties, but I do want to assure you that the Society is fully conscious of its position in this regard. We feel we are carrying out to the full the wishes of the subscribers, who come from all parts of the country, and the views of one area may not be the views of others.

ORGANISATION

With regard to the Society's organisation the Council have devoted a good deal of attention to this matter during the past year, and we hope we shall before very long have established those branches of the Society which are referred to in the new organisation scheme. We hope to make the Society under this reorganisation the pharmaceutical home of all who hold the Society's qualifications. We shall in this way increase the value of the qualification and consolidate the membership of our Society. We hope it will be done with as little disturbance as possible to the local societies, and we hope to get ready for the branches to be in full working order by the next winter's session. We propose holding a big national conference of members of the Pharmaceutical Society. Direct delegates will be appointed from each branch, but all members of the Society will be welcome. We hope that the conference will combine to make it the great pharmaceutical event of the year, a kind of red-letter day in pharmacy. At present negotiations are taking place with the British Pharmaceutical Executive with regard to the amalgamation of those two bodies. All I can say is that I hope the negotiations will be brought to a successful conclusion, and that we shall have under the aegis of the Society a combined conference and such an amalgamation as will make the conference as a joint affair of greater importance than it has been in the past, although it has had a good record. It should provide an opportunity for the Society to continue this work, which we are now developing, on a larger scale—the promotion of scientific research. The report from the North British Branch has been made public. I am glad to say that under the Executive the work of the Society in Scotland has maintained its high standard, and steady progress is going on among Scottish pharmacists. One word with regard to the officers of the Society: from Sir William Glyn-Jones right away down to the lowest member we have had the most loyal service throughout the past twelve months. (Applause.) We feel confident in appealing

for your support and that of the pharmacists throughout the country. In our new lease of life I feel sure the Society will maintain its prestige as a pharmaceutical community throughout the world, and we shall gain strength day by day. (Applause.)

The Vice-President seconded the adoption of the report.

Discussion

Mr. James Mackenzie said he wished to offer a few criticisms. He recalled the old days of thirty years ago when the hall used to be full and there was much criticism over financial affairs. He suggested that the Council should take into consideration the possibility of making pharmacists full members on the payment of a lump sum, for every pharmacist should be a member of the Society. Another matter to which he directed attention was the desirability of dealing with the question of methylated spirit, and he created amusement by suggesting that the Society should approach the Excise department for permission to introduce tartar emetic into the spirit. With regard to the pension which was to be given to the curator of the museum, he questioned the legality of such a course, although quite in sympathy with it, and recommended that Mr. Holmes should be made consultative curator in order to cover the difficulty.

Mr. R. A. Robinson, speaking from experience of war funds, pointed out that at present the Society made no charge for administrative expenses in connection with the War Auxiliary Benevolent Fund, and he suggested that they should do so. He congratulated the Council on the distinct step in advance on the question of Army pharmaceutical service, and recalled the shocking waste of medicines and surgical dressings during the war. It would be to the interests of the country if some reform could be achieved and pharmacists given their proper place in the Services.

Mr. Gadd criticised the state of the library and the museum. The books, he said, were often not clean, and, as far as he could gather, they were not added to. He asked that more attention should be paid to these two departments.

Mr. John Noble also spoke adversely of the state of the library, although he made it clear that no blame attached to the librarian. It was time the Council allocated money to the re-binding of many of the books, some of which were very valuable. He also complained that at the last evening meeting no discussion was allowed on the first paper, and suggested that only one paper should be given unless there was plenty of time for discussion on more than one.

Mr. Finemore associated himself with Mr. Gadd's remarks. He paid a magnificent tribute to Mr. Holmes, and pointed out that the Society's pension was by no means generous, especially considering the lowered value of money as compared with pre-war days.

Mr. John H. Robinson (Liverpool) created much merriment by his vigorous criticisms. He suggested it was time someone was appointed to take charge of the publicity work of the Society, and emphasised the importance of looking upon pharmacy more as a bread-and-butter question. The profession, he said, was getting worse every year. There were some chemists who could not afford to pay their rent, and he deplored so much highfalutin' talk about education when that was the case. There was too much "hush, hush!" about the Society. (Applause and laughter.)

Mr. Schollar mentioned that he had heard two complaints of unfairness at the examinations, and also expressed the opinion that the latter were being made too difficult.

Mr. Ingham referred to the library and museum and also to Mr. Holmes, who, he recalled, was curator when the speaker was a student in 1868. He considered that the amount of pension the Society had granted was too little.

Mr. Gerrard said it would be imagined from the observations of some of those who had spoken that pharmacy was going to the devil. But he remembered the time when the profession was not in the position it was in to-day. Forty years ago they began at eight in the

morning and went on until ten at night, and all day Sunday. The library and museum had been of inestimable value to him. He suggested that the Society should encourage the scientific side of pharmacy.

Mr. I. T. Lloyd, Dr. Crossley-Holland, and Mr. Hirst (Scarborough) closed the discussion, the last-named urging that something more should be done for qualified assistants.

The President replied to the points raised in the discussion. With regard to methylated spirit, it had always been the policy of the Council to do everything they could to prevent the abuse of any drug. Those who had referred to the pension granted to Mr. Holmes had overlooked the fact that he would continue his connection with the Society. The Council would allow no one to challenge their regard for Mr. Holmes, but the pension was a somewhat difficult matter to discuss in a public meeting. He asked the members to accept the assurance that they were not going to lose touch with Mr. Holmes, for they valued the services he had rendered, and would look after him. (Applause.) As to the state of the library and museum, there was a good deal of justification for the criticisms, and the matter would have to be dealt with. So far as the observations of Mr. Robinson (Liverpool) were concerned, whatever was practicable would be done. He welcomed the suggestion that the Society should develop pharmaceutical research, and, dealing with the complaint that discussion had been prevented at the last evening meeting of the Society, he said that special circumstances were responsible, and such a thing was not likely to happen very often. Mr. Schollar had challenged the fairness of the Society's examinations. He had only had a few complaints of such a kind before, though ample opportunity was given for any student who wished to complain to do so, and the complaints investigated had proved to be unfounded. He hoped that if Mr. Schollar had any complaint he would pass it to him (the speaker), so that it could be investigated. Only five or six out of the thousands of candidates examined in the last year or two had complained on any score, and their complaints had not been substantiated. Pharmacy had made great advances in the last two or three years. (Applause.)

The motion was formally put and agreed to.

SCRUTINEERS

On the motion (duly seconded) of the President, scrutineers were appointed to examine the ballot-papers sent in for the election of Council candidates.

AUDITORS

It was proposed, seconded and adopted, that the following be reappointed auditors: Messrs. S. B. Francis, J. F. Harrington, J. S. Hills, T. E. Lescher, E. J. Millard.

REGISTERS

The President called attention to the fact that the Registers were open to inspection.

The meeting then stood adjourned to 5.30.

Council Election Result

The efficiency of the provision made for counting the votes resulted in the poll being declared in good time. Mr. A. R. Keith presided over the ceremony, and Mr. F. Bascombe, chairman of the scrutineers, read the following result:

Peck, E. S.	...	...	...	...	3,778
White, E.	...	...	...	...	3,498
Antcliffe, H.	...	...	...	...	3,287
Parry, L. M.	...	...	...	...	3,219
Skinner, H.	...	...	...	...	3,208
Currie, W. L.	...	...	...	...	3,161
Marns, T.	...	...	...	...	2,070
<hr/>					
Lloyd, H. M.	...	...	...	...	1,660
Greenfield, W.	...	...	...	...	1,445
Joseph, L.	...	...	...	...	870

The first seven candidates were accordingly declared elected. The usual vote of thanks to the scrutineers was moved by Mr. Keith, carried by acclamation, and briefly acknowledged by Mr. Bascombe.

Council-meeting

The customary meeting of the Council was held at 15 Bloomsbury Square immediately prior to the annual meeting of the Society, the President in the chair. The absent councillors were Miss Buchanan, Mr. Currie, Mr. Guthrie, and Mr. Young. Several members and student-associates were elected, and certain restorations to the Register were made. The Council then went into committee for the purpose of arranging the business of the annual meeting.

Personalities

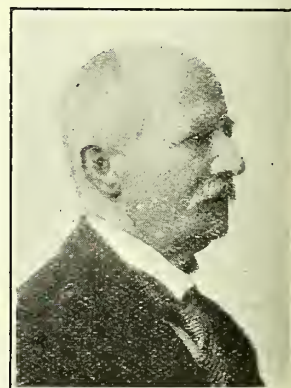
MR. W. WOOLLEY, J.P. (Cupal, Ltd., manufacturing chemists, Blackburn), has been elected President of the local Sunday School Union.

For the forthcoming conference at Whitsuntide of the United Kingdom Commercial Travellers' Association. Mr. Thomas Swales (a Vice-President of the Leeds Branch) has been elected as one of the delegates.

COLONEL S. W. FAIRCHILD (Fairchild Bros. & Foster), New York, is at present in this country. One of the objects of his visit is to re-establish the Fairchild Scholarships and Prizes, which had to be suspended in 1915, owing to the war. The first step to this end is the appointment of Mr. Herbert Skinner, Ph.C., 16 Priory Gardens, Highgate, London, N. 6, as secretary to the Committee of Trustees.

A UNIQUE and very pleasant gathering of pharmacists and friends of Mr. A. W. Gerrard, Ph.C., took place, on May 9, at the Midland Hotel, Birmingham, the occasion being the

seventy-eighth anniversary of his birth. The event was utilised for bringing together the President and past-Presidents of the Birmingham Pharmaceutical Association, of whom no fewer than ten were present. Mr. Gerrard was the host, and the numerous gathering comprised two councillors of the Pharmaceutical Society (Mr. E. White and Mr. H. O. Lloyd), two teachers of pharmacy (Mr. F. H. Alcock and Mr. H. Berry), two councillors of the Birmingham



MR. A. W. GERRARD, PH.C.

Corporation (Mr. Jeffrey Poole and Mr. R. H. Hume), and two J.P.s (Mr. F. J. Gibson and Mr. Maurice Smith). Three generations of the Gerrard family were represented. Apologies for absence were read from Colonel Wyley, Mr. T. Barclay, and Mr. E. Corfield. Mr. Charles Thompson proposed the toast of "Our Host," remarking that Mr. Gerrard was for four years President of the local Association, and for twenty-seven years had honoured them by his presence among them. Mr. Thompson sketched the career in pharmacy of their chairman, and drew attention to the large number of monographs contributed by him to pharmaceutical literature; some of these referred to the isolation of new alkaloids, notably pilocarpine. The speaker also drew attention to the chairman's estimable social qualities, which had gained for him a large circle of friends in and around their city, and concluded by presenting to their veteran friend a silver loving-cup inscribed with the name of every contributor. Mr. Gerrard feelingly replied, expressing his gratitude that at his age he was able to meet in social intercourse so many good pharmacists and companions. When he first entered Birmingham he was received with friendliness and good comradeship by Charles Thompson, F. Gibson, Jeffrey Poole, and many others, and there had been no break in his happy relations.

Births

DANN.—At The Pharmacy, Hawarden, on May 10, the wife of R. G. Dann, M.P.S., of a daughter.

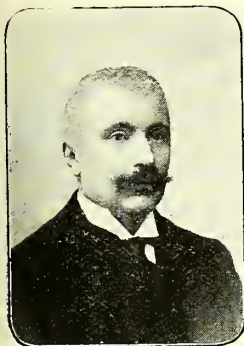
LAMBERT.—On May 10, the wife of Robert Morrison Lambert (Samuel Lambert & Co., chemical merchants, 14 Mincing Lane and 59 Eastcheap, London, E.C. 3), of a son.

Marriage

RULE—TILLET.—At the Wesleyan Church, Windsor Road, Ealing, on April 24, by the Rev. W. Sackett, John Rule, C. de G., M.P.S., Burnham-on-Crouch, son of Mr. T. J. Rule, Thornhill, Dumfriesshire, to Gladys Lilian, youngest daughter of Mr. G. W. Tillett, 323 London Road South, Lowestoft.

Deaths

CIAMICIAN.—The death is announced of Signor Giacomo Ciamician, professor of chemistry in the University of Bologna, aged sixty-five. For nearly forty years Professor Ciamician had been an investigator with a reputation extending far beyond the frontiers of his own country; and a considerable amount of research was carried out by him, singly and in conjunction with P. Silber, in alkaloids and synthetic chemicals. Several of these monographs have been summarised in the "Year-Book of Pharmacy." At the Rome meeting of the International Congress of Applied Chemistry in 1906 (at which time the accompanying portrait was taken) Professor Ciamician presided over the organic-products section.



PROF. G. CIAMICIAN

COLLENETTE.—Recently, Mr. Adolphus Colletette, F.C.S., F.R.M.S., retired chemist and mineral-water manufacturer, aged eighty. Mr. Colletette carried on business in the Arcade, St. Peter Port, Guernsey, for a long period. He was well known in the island as a meteorologist, and lectured on chemistry and astronomy. At one time he was curator of the Guille-Allès Museum and President of the Guernsey Society of Natural Science and Local Research.

COWGILL.—At his residence, 6 Palatine Square, Burnley, on May 11, Mr. Brian Horatio Cowgill, chemist and druggist, aged seventy-three. Mr. Cowgill carried on business in Manchester Road for forty-five years in succession to his father, by whom he was trained in pharmacy. After qualifying, he extended his experience as an assistant at Maidenhead and with Jewsbury & Brown, Manchester, before returning to Burnley. Mr. Cowgill, who was widely esteemed as a sound business man and a clever photographer, is survived by four daughters. His portrait (as President of the Burnley and District Chemists' and Druggists' Association) appeared in *THE CHEMIST AND DRUGGIST*, I., 1897, p. 159.

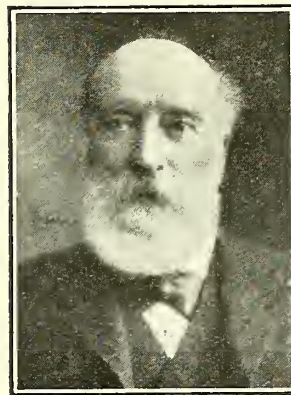
DARKE.—On May 8, Mr. George Henry Darke, chemist and druggist, for many years in business at Cainscross, aged eighty-two.

ELLIS.—At 121 Grimsby Road, Cleethorpes, on April 30, Mr. Thomas Wokes Ellis, chemist and druggist, aged seventy.

Low.—At 98 York Mansions, London, S.W. 11, on May 12, Mr. Robert Bruce Low, C.B., M.D., aged seventy-six. Dr. Bruce Low graduated at Edinburgh University, and subsequently studied in London and on the Continent. In 1887, after carrying on a practice in Yorkshire for nineteen years, he became a medical

inspector of the Local Government Board, and rose to the rank of assistant medical officer. Dr. Bruce Low was the author of valuable reports on the diffusion of plague and other diseases and on the vaccine establishments of Germany. During the war he served on the Anti-Typhoid Inoculation Committee.

MORGAN.—As briefly announced in our last week's issue (p. 53), Mr. Edward Vaughan Morgan, youngest and last survivor of the seven Morgan Brothers, founders of *THE CHEMIST AND DRUGGIST* and "The Ironmonger," died at his residence in South Kensington on May 9, at the age of eighty-three. Mr. Morgan and his brothers were born at Glasbury, Brecknockshire, and were bereaved of their father at an early age. In the 'fifties Mr. William Vaughan Morgan acquired the business of Halse & Son, merchants and druggists' sundriesmen, in the City of London, and before long Mr. Septimus Vaughan Morgan (afterwards intimately associated with *THE CHEMIST AND DRUGGIST*) joined him as partner. The style was made Morgan Brothers, and eventually Mr. Edward Vaughan Morgan, who had been acquiring business experience in Birmingham, became the sixth partner. With a bundle of faggots as the firm's trade-mark, each of the brothers brought specialised knowledge to bear upon the various departments of the concern, resulting in harmonious working and widening of scope. One of their interests was the Morgan Crucible Co., in the management of which Mr. Edward Vaughan Morgan took an active part. The history of the founding of *THE CHEMIST AND DRUGGIST* and "The Ironmonger" in 1859 was fully told in *THE CHEMIST AND DRUGGIST*, II., 1909, p. 136. It may be recalled, however, that in 1872 Messrs. Morgan Brothers disposed of several departments of their City business and removed from 29 Bow Lane (now the Mansion House Station) to 42 Cannon Street. Mr. Edward Vaughan Morgan retained his interest in the publishing business until 1916, when—twelve days before the death of Sir Walter Vaughan Morgan—who had also been a partner—his partnership ended by effluxion of time, and the proprietorship passed to Mr. Gwyn Vaughan Morgan and Mr. Penry Vaughan Morgan. In 1919 the business was converted into a private limited company. Mr. Edward Vaughan Morgan married, in 1870, Emmie, daughter of Mr. John Irving Pascoe, Surbiton, who survives him with a family of four sons and six daughters. The funeral took place on May 12 at Putney Vale Cemetery, the first part of the service being held at St. Peter's Church, Cranley Gardens, S.W. The board of directors of Morgan Brothers (Publishers), Ltd., was represented by Mr. Gwyn Vaughan Morgan and Captain Austin Hudson.



MR. E. V. MORGAN

MITCHELL.—At their residence, 116 Earlham Grove, Forest Gate, Essex, on May 13, "Pops," the beloved wife of Mr. Harold Mitchell, pharmacist, 56 Woodgrange Road.

Business Changes

Mr. C. T. KEMP, Ph.C., has acquired the business of W. & H. B. Williams, chemists, 46 Bridge Street, Hereford. Mr. Kemp was formerly in business in Eign Street.

N. W. MITCHELL & SONS, LTD., cork merchants, 2 Dod Street, London, E. 14, have opened an office and showroom at 275-276 High Holborn, W.C. 1, in charge of Mr. L. R. B. Pearce, B.Sc., A.I.C., F.C.S. Customers are invited to call and inspect samples.

Trade Notes

DR. STORK'S WORM-CAKES are a speciality of the Harrogate Tablet Co., Ltd., Chatsworth Grove, Harrogate.

HAUFF'S CHEMICALS are now obtainable in this country from the wholesale distributors, Messrs. Hunters, 65 Chancery Lane, London, W.C. 2.

PHOTOGRAPHIC CHEMICALS.—Selections from their list of photographic chemicals are given in the advertisement of the Cooper Laboratory, Watford.

BINOCULARS.—The Gramophone Manufacturing Co., 92 Tottenham Court Road, London, W., offer a war stock of prismatic binoculars at cheap rates.

MARSHALL'S LYSOL.—The advertisement of Lysol, Ltd., Raynes Park, London, S.W. 20, referred to in this column last week (p. 54), was withdrawn after this page had gone to press.

POTTER & MOORE'S PERFUMERY is being exhibited at the Chemists' Exhibition in the Central Hall, Westminster, from June 19 to 23, by the proprietors, W. J. Bush & Co., Ltd., Ash Grove, Hackney, London, E. 8.

CHEVALIER MENDES & Co., 17 Rue Hustin, Bordeaux, vanilla-bean importers, have appointed Alfred Paul White, 3 Water Lane, Great Tower Street, London, E.C., as their sole representative for the United Kingdom.

FIRE.—The premises of the David Macqueen Co., Ltd., Boscombe, Bournemouth, makers of Vegetine pills, have been destroyed by fire. The company ask the indulgence of the trade in the execution of orders for a week or so.

PHOTOGRAPHIC DEVELOPING.—Duck & Son, photographic chemists, Cardiff, have issued a new price list of photographic developing, printing, and enlarging for the trade. Quick service and good results are the principles upon which the business is founded.

BROWN'S BRONCHIAL TROCHES.—A new size of Brown's Bronchial Troches retailing at 1s. 3d. has been introduced, in addition to the regular 2s. 6d. size. The prices are given in the advertisement in this issue of the British Harold F. Ritchie & Co., Ltd., 33 Farringdon Road, London, E.C. 1.

"A1" OLIVE OIL.—Southall Bros. & Barclay, Ltd., Birmingham, call attention to the exceptional character of this season's olive oil. The "A1" olive oil, from olives grown in the Riviera, is supplied in bulk or packed ready for sale in bottles. A showcard advertising olive oil is supplied on application.

ELECTROPLATED GOODS.—Adolph Scott, Ltd., 24, 25, and 26 Great Hampton Street, Birmingham, have issued a series of leaflets giving particulars of new lines in electroplated ware. The articles include cruets, cutlery, watches, clocks, jewellery, dressing-cases, manicure-sets, and barometers. Chemists who sell fancy goods as a side-line will find these leaflets a useful guide to the best-selling lines.

DE LUZY COMPETITION.—We are asked to point out that De Luzy's advertisement in the *C. & D.* last week wrongly stated that the prizes offered to chemist-proprietors, managers, and assistants amounted to £100—instead of £500, as is actually the case. Particulars of the competition can be obtained by sending a postcard request to De Luzy, 3 London Wall Avenue, London, E.C. 2.

"FLYGUARD" FOOD COVERS.—J. V. Elliott & Co., 12A Goreo Piazzas, Liverpool, are advertising "Flyguard" food-covers in this issue. These consist of circular wire frames covered with muslin, which placed on food vessels preserve the contents from dust and contamination by flies. The covers are supplied in three sizes, a set of the three being packed in an envelope, to retail at 1s. 3d.

"GLAXO" BABY BOOK.—A new edition of this book has just been issued by the proprietors of Glaxo, 56 Osnaburgh Street, London, N.W. 1. The book is designed to popularise the use of Glaxo as a food for infants, but in addition much useful advice is given on bringing up children and of the treatment required in illnesses. The book is distributed post free to the public who send 1s. 2d. to the proprietors.

"STEEL GLASS" VACUUM-FLASKS.—L. Rees & Co., 12 New Union Street, London, E.C., devote their adver-

tisement to the new "steel glass" vacuum-flasks. The feature of the flask is that thick, hardened glass is used for making the vacuum vessel in place of the thin glass generally employed. The effect of this invention is to produce a flask of great strength, which withstands rough usage and is not affected by sudden changes of temperature.

"TABLOID" CHENOPODIUM OIL in capsule form is a standard preparation of this remedy for hookworm. The oil is almost a specific in the treatment of round worms. "Wellcome" brand chenopodium oil, used in this product, is an improved preparation from which the inactive and deleterious ingredients of the natural oil have been eliminated, with the result that its composition is constant, and the same dose presents always the same amount of active principle. Owing to its freedom from unnecessary and undesirable constituents also, the "Wellcome" brand oil can be administered in smaller doses than the crude oil, half the usual dose being given to begin with, and raised, if necessary, to three-quarters. "Tabloid" chenopodium oil (capsule) is supplied in boxes containing twenty-five capsules, and is issued in strengths of 3 minims, 5 minims, and 10 minims.

Poisonings

THE following cases of fatal poisoning, among others, have been recorded since our last report:

At Liverpool, Jessie Moore, chambermaid in a hotel, died, according to medical evidence given at the inquest, from coma following convulsions due to taking aspirin. It was not clear, apparently, what dose was taken. The verdict followed the testimony of the doctor.

Lysol was the poison taken by a London policeman named Pease, while of unsound mind; and carbolic acid figured in suicidal cases at Bromley (Kent) and Leicester. In the last-mentioned instance the coroner was reported as saying that carbolic acid is not a scheduled poison.

At Sale, Edward Hall Stevenson, chemists' apprentice, committed suicide by taking hydrocyanic acid while of unsound mind. A medical witness who had prescribed for the deceased stated that symptoms resembling those of epilepsy had been noticed, and that epileptic subjects had suicidal tendencies.

In the Court of Criminal Appeal, on May 11, 12, and 15, Major Herbert R. Armstrong, solicitor, Hay, appealed through his counsel against his conviction at Hereford Assizes for the murder of his wife by the administration of arsenic (*C. & D.*, April 15, p. 44). The following dialogue between the Bench and Sir Henry Curtis Bennett, counsel for the defence, has reference to the contention that Armstrong's use for arsenic was chiefly the destruction of weeds. The Lord Chief Justice: To find a packet of 3½ gr. of white arsenic in a solicitor's pocket is surely rare. Sir H. Curtis Bennett: Weed-killer is common enough. A pound contains approximately 7,000 gr., which costs about 2s. 6d. For that sum you could poison 3,000 people. It might easily be divided up into small packets for separate weeds. Mr. Justice Avory: Is 3½ gr. just the fatal dose for a dandelion? Sir H. Curtis Bennett: I don't know; it may be 1½ gr., but seeing that even at 3½ you could kill sixty-six for one penny, a man is not likely to take particular care whether he uses 1½ or 5½, more or less. The appeal was unanimously dismissed.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

S/185. "Bennet" face-massage glove	L/315. Kidder Asthma Raucher Kerzen Pastilles
S/165. "Caljado M.B." toilet preparations	W/155. Pollascine
R/55. "Corzat" medicated wool	M/175. "Red Seal" aspirin tablets
B/175. "Curline"	W/185. Scotts Tissue Cowheel
B/175. "Dryco" baby food	M/175. Shore's Seawater Soap
S/175. "Parfum Bul-Bul"	S/245. Westwood's apiol and steel pills

Observations and Reflections

By Xrayser II.

The Reductions

in postal rates promised us are not so great as they ought to have been. Their estimated cost to the department is more than £1,000,000 less than the profit made by it last year, and, without allowing for any increase in the returns of the department consequent upon the reductions, next year's profit bids fair to be a great deal more than it should be, for profit to the department is really a tax on the community. Apart altogether from business considerations, the Post Office has no right to make us pay more than is necessary for the conveniences it offers, but business considerations, which seem to be the only ones that have any force, are sufficient to show the folly of unnecessarily high rates, which restrict not only business in general but the business of the department itself. It would have paid Mr. Kellaway to spend another million pounds in the reduction of parcel-post rates, which at present are almost prohibitive. This apparent loss would quite possibly have proved a gain to him, and would certainly have meant a great increase in minor trading transactions. With a minimum charge of 9d., this branch of the Post Office is virtually useless to thousands of those who would otherwise use it daily. I received yesterday a parcel the contents of which cost fifteen pence, and the postage on which was a shilling, with ninepence to be added for the return of the package.

Mr. Skinner,

it will, I fancy, be generally agreed, has completely justified his remark upon the action of the Executive of the Retail Pharmacists' Union with regard to at least one thing in which he and the London chemists had a common interest. The disclosure he makes is painful reading, and it is difficult to see how the action of the Executive can be satisfactorily explained. The point that especially puzzles me is the anxiety of Mr. Mallinson to forestall the *C. & D.* I am, however, glad that this point has been brought out, for I happen to know that some misunderstanding of the action of the *C. & D.* in this matter exists or has existed. I have been asked why the *C. & D.* thought it necessary to publish a list, since the Retail Pharmacists' Union already had one, and the query evidently implied a charge of rivalry if not of hostility on the part of the conductors of the paper. I could only reply that I was not in the counsels of the *C. & D.*, and knew nothing but that the publication of a list had been contemplated for a long time. It now appears that the boot was on the other leg, but the reason why it was assumed in such haste still needs explanation.

"Lens,"

in the "New Statesman" for May 6, proposes "two distinct methods, simple and practical" (which turn out to be three), of dealing with the cocaine evil. He would create such a horror of the drug in the public mind, and especially in the mind of youth, by a Government propaganda against it as would leave no opening for its dissemination even by the most artful and insidious methods. In addition to this he would "control the production of these drugs at the source by international law, and thereafter their distribution for their legitimate uses by responsible and authorised medical and dental practitioners alone." The first method would, I fear, by itself be of very doubtful efficacy, but there is nothing else to be said against it. The control of production is, as "Lens" sees, an international matter. There remains only the question of distribution, and one hardly sees what more control than we have at present "Lens" wants. He appears to be imperfectly acquainted with the Dangerous Drugs Act Regulations, unless, as appears from his proposal to "cut out" the employment of cocaine in pastilles, lamellae, medicated wines, etc., he would "cut out" the employment of chemists in its distribution, too, which does not seem practicable. How can doctors and dentists distribute the drug unless it is first distributed to them, and how could this be done except by chemists?

My Practice

has always been to dispense all liniments, whether poisonous or not, in "poison bottles," labelling them "For external use only," or "Not to be taken." But in the case of virulent poisons I favour the addition of a "Poison" label, whether the prescriber enjoins this or not. The addition may not, strictly speaking, be necessary, but I do not see how any reasonable person can be alarmed by it in any bad sense. It does but emphasise the necessity of caution already conveyed by the bottle, and in case of misuse of the liniment it exonerates the dispenser from the possibility of blame. It is, moreover, only acting in the spirit of the Poisons and Pharmacy Act, and it seems to me a matter the doctor may leave to the discretion of the chemist.

The Processes

by which sponges are cleaned and prepared for market can hardly be so expensive as to account for the prices charged for them by wholesale dealers. The methods employed, as described by "An Expert," do not appear to be so very "delicate," and the agents used are certainly not very costly. The true explanation of the prices charged must apparently be sought in the lack of competition in the trade. There is the question of "confidence," too, which, as your contributor somewhat naively says, plays a great part in the business. Confidence has, of course, to be paid for, and "real experts are rather rare." I made some remarks on this subject, if my memory serves me, in a note on Captain Monckton's book, "Some Experiences of a New Guinea Resident Magistrate," a year or more since. Captain Monckton gives a most interesting description of the fishing for sponges off New Guinea, but is puzzled to account for the high price of merchantable sponges. He conveys the impression that enormous profits are made somewhere *en route* from the fishery to the bathroom. They are not, apparently, made by the natives, and certainly they are not by the retailer.

Nottingham,

when I first knew it, was, I suppose, not above half its present size. It ended on the lower side, practically, at the Midland Station; the population of the borough was about 60,000, of the town and suburbs about 100,000. The Castle was an eyeless ruin; the Park, of about 130 acres, was not yet built upon. No doubt the town is now very greatly improved; many of its streets have been widened and its worst slums swept away; many fine buildings have been erected and the Castle and grounds have been restored. But it is a much less picturesque place now than it was then, when a sober historian could speak of its "picturesque site on the broken declivities and occasionally abrupt precipices of a sandstone rock." Two hundred years earlier an enthusiastic admirer, in a sermon preached at St. Paul's, set forth "how farr that Town of Nottingham doth run parallel with Hierusalem. Was Hierusalem set upon precipitous (*sic*) hills, and is not Nottingham so? And as the mountains stood about Hierusalem, Psalm 125, do they not so about Nottingham?" But I must not continue the quotation, lest visitors to the Conference should be disappointed with the reality. They will not indeed see any "climbing towers scituate upon perpendicular rocks," and ascending to "such a stupendous height, like another Zion, as if the spectators should believe that they intended to peer into the clouds, or to pick a quarrel with the Moon." They may perhaps see little in the Trent, embanked and boulevarded, to remind them of the Jordan, or recognise the likeness of "that little River" the Leen to the brook Kydron, "trilling down by the foot and as it were washing the toes of that Hierusalem," but I believe they will find the place a good deal more sanitary than it used to be, and its accommodation for visitors very much better.

AN ADDRESS will be delivered on "The Possibilities of Trade with and through Esthonia," at the offices of the London Chamber of Commerce, Oxford Court, E.C. 4, on May 23, at 3 p.m.

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An announcement of particular interest to you appears in this issue on page 14

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The Council Election

THE promise of a keen contest for the Pharmaceutical Council never ripened. The election this year will rank with that of 1921 as another demonstration of a real

lack of interest in the Council. The other feature which stands out is the power of advertisement in placing men into a position which actual work can scarcely justify. There were nearly 6,000 voters who did not take the trouble to record their vote out of 10,300. If we work in percentages it appears as though there is little to be said in comparison with elections in other spheres of life; nevertheless, it cannot be called satisfactory. There is one other point: each candidate laboured under the difficulty of being unable to reach the electorate by personal letters owing to the absence of a list of members and the abnormal expense involved. The poll was up to the average of recent years, but that does not decrease the uneasiness arising from the continued apathy. Mr. Peck, a new man to Council honours, takes the first position on the poll. Everything was in his favour from long experience as an examiner, as the officer appointed to visit technical schools, and as ex-President of the British Pharmaceutical Conference. It would appear that he had an appreciable number of plumpers, since only 500 of the returned papers failed to give him a vote—a remarkable testimony for a new man. Mr. White maintained his position of six years ago; all the others improved their vote. The surprising thing was that Mr. Skinner, though returned with an improved vote, failed to maintain his position, and stands number five. Doubtless his outspoken personality and independent attitude froze off the 1,000 who failed to record him a vote. There was at one time a hope that he would be returned at the head of the poll, and this resulted in turning on the opposition, which "works in a mysterious way." Mr. Skinner is easily the best unpaid worker there is in pharmacy at the present time. The position of Mr. Parry may be taken as an endorsement of the policy of "conserving" the War Auxiliary Benevolent Fund, about which much criticism has been made. Mr. Antcliffe, who was a co-opted member, did exceedingly well to reach 3,287. The other new man is Mr. T. Marns, with 2,070 votes, who was standing as a colleague in London with Mr. Skinner. This is a material gain to the independent men. It is unfortunate that Wales loses a direct representative, but another year might easily present a more favourable opportunity. It is extraordinary that 870 voters did not seem to be aware that Mr. Joseph had withdrawn his candidature. There is not much to be learned from the election, it being, apart from Mr. Marns, a case of as you were, since Mr. Peck can be regarded as almost equal to a member of the Council even before the election. Mr. Marns is the one advantage gained, but if real progress is to be made in pharmacy the leaders in our midst must set themselves out to create a greater interest in pharmaceutical public affairs.

The Turpentine Scarcity

WITHIN the past few weeks the market for American oil of turpentine has developed very striking features, and there is no doubt that a period of scarcity has been entered upon such as has seldom been experienced in the history of the trade. This has had something to do with the recent big advance. The latest returns of London spot stocks, issued early this week, amounted to only 5,914 barrels, the bulk of which consists of American spirit, although a fair quantity of French was recently attracted to this side as a result of the swift rise up to 90s. per cwt. for spot delivery. The total stocks at the close of last year amounted to 14,414 barrels, compared with 51,064 barrels a year ago. The present stock is, of course,

dangerously low, although the London visible supply, including the quantity afloat from America of about 4,000 barrels, would make a total of over 9,900 barrels. What with the fact that the reserve stocks in the United States are believed to be at a low ebb over the tail-end of the season, and that the continuous rise in the American rate of exchange renders imports rather difficult, there is not much hope of more comfortable conditions being experienced by home consumers for some time, or until the supply of new season's crop begins to assume important dimensions. The prevailing tightness in spot and near-at-hand spirit in a more or less marked degree has to be reckoned with this side of midsummer, especially in view of the fact that, owing to the unseasonably cold weather in the last few months, producers' operations this season will be seriously delayed. In our editorial columns of December 24 last (p. 57), when the market was fluctuating at well below 70s. per cwt., we suggested that fundamental conditions were sound, and that with a steadily strengthening statistical position it was evident that stronger and more lively markets would be seen at no distant date. This forecast has been fully borne out by recent happenings. Manipulative tactics doubtless played a certain part in the recent rapid rise to 90s., which is not surprising in a market persistently threatened with acute scarcity. Consumers who were caught short of stock became somewhat alarmed, and the pressure to cover urgent needs, combined with the considerably increased deliveries in recent weeks, naturally added to the rampant state of the market under the influence of much stronger transatlantic reports. The advance represents well over 25s. per cwt. for spot delivery from the lowest point recorded this year, when dealings were neglected and thus tempted forward depressing operations under the premature expectation that the constant rise in the exchange would eventually result in c.i.f. costs being appreciably lowered. The position of home importers has been extremely difficult, largely because of the big movements in the American rate of exchange, which from the lowest seen last year in June at \$3.54 to the pound sterling has more or less steadily risen to about \$4.45. Exchange uncertainties—this also referring to some extent to the French currency—have been one of the main factors in interfering with the accession of supplies to this side, as will be seen from the detailed returns of imports given below for the last three years:

	1919 Tons	1920 Tons	1921 Tons
United Kingdom Imports			
From United States	19,057	16,575	12,950
„ France	1,784	3,729	715
„ Portugal and Spain ...	1,339	703	786
„ Russia and Scandinavia	562	628	279
„ all other countries ...	—	924	696
Total ...	22,742	22,559	15,425

While the total shown for 1920, at about 22,500 tons, closely approximates to that of the previous year, this quantity was roughly 5,500 tons short of the supplies imported in the pre-war year 1913. The slump in last year's imports of about 7,000 tons compared with the two previous years has had its reflex in the poverty-stricken aspect of our market resources since the close of last year, as already indicated by the extremely low stocks now in existence, notwithstanding the improvement noted in our imports for the first four months of this year at 4,666 tons, which compares with only 1,920 tons and 2,677 tons respectively for the same period in the previous two years. The quantities accounted for in the last three years from Russia, Scandinavia, etc., were very small,

and it is doubtful whether supplies from these sources, which in the year before the war represented over 6½ per cent. of our total imports, will be added to to any material extent for another year or so. The produce from France and Portugal in the last two years were chiefly absorbed on the Continent; but given a rectification of the exchanges of the respective countries and a renewed advance in the price of American spirit, additional supplies should be coming along from that quarter. Meanwhile, the fact remains that our market is chiefly dependent on fresh shipments from the United States. It is rather significant that, in spite of the recent sharp break of about 10s. per cwt. in spot delivery from the highest touched early this month of 90s., there has been but little weakening in the value for distant delivery in the neighbourhood of 60s.

Overseas Trade in April

LARGE decreases in imports and exports are recorded in the Board of Trade Returns for April when compared with March, but this is partly accounted for by the fact that the Easter holidays fell in April this year. Bearing this in mind, it would appear that our foreign trade figures by no means make a bad showing. The imports in April were £80,661,000, a decline of £7,218,000, and as regards exports the value was £55,507,700, a fall of £9,073,000 compared with March, the total being the lowest since September last. Compared with a year ago, overseas trade shows a considerable decline as regards values, but lower prices play an important part in these figures:

April 1922 compared with April 1921

Imports	...	...	£ 80,661,000	-9,290,100
Exports	...	...	£ 55,507,649	-4,360,000
Re-exports	...	...	£ 9,120,000	+ 676,000

April 1922 compared with March 1922

Imports	...	...	£ 80,661,000	-7,218,000
Exports	...	...	£ 55,508,000	-9,073,000
Re-exports	...	...	£ 9,200,000	- 953,338

Four months 1922 compared with 1921

Imports	...	...	£ 314,288,500	-83,269,000
Exports	...	...	£ 241,570,500	-46,084,000
Re-exports	...	...	£ 37,986,000	+ 2,615,000

The features during April on the import side include a substantial decline in food and the like, by £12,767,000, our total receipts being forty millions sterling, which is very satisfactory. Another bright feature was increased purchases of raw materials and articles mainly unmanufactured, by £4,857,000, the figures being almost 21½ millions sterling. Imports of articles wholly or mainly manufactured were down by £1,412,000. Many items under this schedule show substantial increases, but to be debited against these are reductions in oils, fats, gums, and resins amounting to £1,836,000. Of chemicals, drugs, dyes, and colours we bought £84,874 more—viz., £943,405, compared with £858,531 in April 1921, and £2,789,000 in April 1920. Calcium carbide and sodium nitrate are two outstanding items for which higher prices have been paid; of the former chemical we bought 29,554 cwt., which cost £192,415, whereas this time last year we bought 55,726 cwt. at a cost of £184,262 only; our imports of drugs and medicines are less by £52,000, amounting to £165,500. On the export side of the Returns, in comparison with April 1921, there was a decrease in food, etc., by £719,000, but of raw materials we exported £4,440,000 more, this being principally accounted for by

an increased export of coal amounting to £3,341,000. The German purchases of coal amounted to 495,836 tons more than in April last year. Our exports of manufactured goods were down by £7,682,000, mainly accounted for by a drop of £3,504,000 in machinery; cotton yarns and manufactures, on the other hand, increased by £1,560,500, which is a welcome sign of revival in Lancashire's staple industry. The slight decrease of £30,500 is recorded in chemicals, drugs, and allied products, our sales amounting to £1,617,700, but compared with the boom period of April 1920 the decline is £1,379,700. Judging by the quantities exported during April, there has been a decided revival in the chemical industry compared with the same period of last year. This we show in the following items of quantities exported:

		April 1921	April 1922
Ammon. chlor.	... tons	108	584
Ammon. sulphate	... tons	7,422	8,951
Bleaching powder	... cwt.	16,790	16,854
Copper sulphate	... tons	5,423	7,691
Potash compounds	... cwt.	2,277	15,883
Soda compounds	... cwt.	273,574	557,685
Drugs and medicines	... £	172,365	204,545
Painters' colours	... cwt.	65,914	100,356

The few items showing a decline include glycerin, 2,139 cwt. against 10,541 cwt.; coal-tar products, £86,839 against £115,676; unenumerated chemicals, £263,785 against £271,693; and dyes and dyestuffs, 12,134 cwt. against 8,485 cwt., tartaric acid, 278 cwt. against 514 cwt., and sulphuric acid, 998 cwt. against 6,565 cwt. The improvement in the chemical industry confirms statements made by leading manufacturers to the effect that both home and foreign orders for many of the leading lines are being received by makers in larger volume. South America, China, Japan, Greece, and the Balkan States are said to be among the overseas consuming countries now in the British market for chemicals, and as prices all round are much more stabilised, the outlook is decidedly more encouraging. This also applies to the drug and medicine business, as we note that on the four expired months of the year overseas trading in this branch has increased by £72,000 to a total of £859,377.

Taxing Chemists in Norway

THE proposal submitted by the Norway Social Department for inclusion in the current Budget, of levying a tax on the turnover in pharmacies, has received the Royal Assent, and for the Budget year, dating from July 1, 1922, to June 30, 1923, Norwegian pharmacists will have to contribute the following proportion on the sum annually realised in the business. Of the total, 25,000 kroner will be exempt. After deducting this amount a further sum, representing 25 per cent. of the remaining total, will also be subtracted, as representing the turnover from the sale of preparations which are not restricted solely to pharmacies. The following levy will be made on the residue:

On the 1st 5,000 kroner, or part thereof	...	1 per cent.
" 2nd "	" "	2 "
" 3rd "	" "	3 "
" 4th "	" "	4 "
" 5th "	" "	5 "
" 6th "	" "	6 "
" 7th "	" "	7 "
On any higher amount	...	8 "

This tax will be levied on the total turnover of each pharmacy from all sales, without differentiation as to whether the turnover is derived from the sale of articles which fall within the business usually transacted in a pharmacy or not—i.e., side lines of a not purely pharmaceutical character. An exception is made, however, in favour of goods supplied to other pharmacies, and the value of such transactions may be deducted from the assessable portion of the turnover.

The French Codex

(Second Supplement)

THE present edition of the French Codex was issued in 1908, and a Supplement was published in 1920, whereby a number of additions were made in the list of official products and certain alterations in others were introduced, the latter mostly taking the form of modifications in the tests for purity, by slightly reducing the very stringent requirements established in several instances—requirements which it had been found difficult to comply with in practice. This first Supplement was dealt with in the *C. & D.*, I., 1920, p. 455. At the time of its publication it was stated in the preface that in future whenever it might be deemed advisable to add new preparations to the Pharmacopœia, such additions would be published in the "Journal Officiel" of the Republic and in the "Bulletin of the Academy of Medicine," thereby legalising their position pending the issue of a new edition of the Codex. This course was dictated by the consideration that the French laws regard as a "secret remedy" every product which has not been included in any edition of the Codex, and therefore from the legal point of view its sale is forbidden, a state of affairs which naturally places the pharmacist in a dilemma when called upon to supply some new synthetic remedy not yet included in the Pharmacopœia. A Ministerial decree, dated April 5, 1922, authorises the publication in the "Journal Officiel" of certain additions and modifications to the Codex, which were duly published on April 11, and will enter into force three months after that date.

By this Supplement seven new products are added to the list of official preparations, viz.:

Colloidal silver prepared by chemical means (collargol).
Diacetylmorphine hydrochloride (heroin hydrochloride).
Emetine hydrochloride.
Ethylmorphine hydrochloride (dionin).
Potassium sulphoguaiacolate (thiocol).
Sodium perborate.
Zinc peroxide.

One modification is made, to the effect that tincture of iodine is to be replaced by a tincture containing iodine and potassium iodide.

COLLARGOL.—Colloidal silver forms particles or scales with a more or less dark grey, metallic lustre, containing at least 70 per cent. of metallic silver. It may contain albuminoid substances. It dissolves slowly in 25 parts of cold water. The liquid obtained presents the characteristics of a colloidal solution; it is limpid when examined by transmitted light, and turbid to reflected light. On heating, colloidal silver is precipitated. Dilute mineral acids, and most saline solutions, also produce a precipitate of colloidal silver. The precipitate obtained by the addition of a saturated solution of sodium chloride re-dissolves on the further addition of water.

Tests.—Prepare a pseudo-solution 5:1000. A layer 15 millimetres thick of the resulting liquid should appear limpid, and should yield no precipitate at ordinary temperature. On calcination colloidal silver prepared by chemical means should char, swelling up during the process, and emitting an odour of burnt horn.

Assay.—Incinerate 0.2 gram of colloidal silver in a porcelain capsule of 20 c.c. capacity until complete combustion of the organic matter. Dissolve the residue in concentrated nitric acid, heating until nitrous vapours are no longer given off. Add about 30 c.c. of distilled water, to dissolve all the silver nitrate which has formed. Collect the solution of silver nitrate and the water used to wash out the capsule; add 2 c.c. of solution of ferric ammonium sulphate (1:10) and 1/10 normal solution of ammonium thiocyanate until a red colour appears; for this 13 to 14.8 c.c. should be required, corresponding to a content of 70 to 80 per cent. of silver in the product. Colloidal silver prepared by chemical means should be kept in dry, well-stoppered bottles. Its colloidal solutions decompose on exposure to light, and should be freshly prepared.

DIACETYLMORPHINE HYDROCHLORIDE.—A white, crystalline powder, soluble in 2 parts of distilled water and in 11 parts of alcohol (90 per cent.), insoluble in ether. Melting-point 231° to 233°. Its aqueous solution is neutral to litmus; it is not reduced by iodic acid, and does not yield a blue coloration with ferric chloride; taste bitter.

Tests.—On heating to gentle boiling in a test-tube a mixture of 0.1 gram of diacetylmorphine hydrochloride and 1 c.c. of sulphuric acid (98 per cent.), the odour of acetic ether should be perceptible (acetyl groups). Dissolve 0.05 gram of diacetylmorphine hydrochloride in 5 c.c. of water; add 3 drops of solution of ferric chloride (5.2:100); the liquid should not assume a blue coloration (morphine). Place 0.05 gram of diacetylmorphine in a porcelain capsule; add 2 drops of nitric acid (63.64 per cent.); solution takes place yielding a yellow-coloured liquid. Heat gently, with care, on a very small flame until the liquid begins to assume a green colour; remove from the source of heat; the liquid will gradually assume a deeper green coloration, which is particularly marked at the edges. Morphine, ethylmorphine, and codeine do not yield this reaction.

EMETINE HYDROCHLORIDE.—Emetine is a diacid base capable of yielding two series of salts; the official hydrochloride is the neutral salt. Occurs as a white powder, consisting of crystalline scales, soluble in water and in alcohol (90 per cent.); insoluble in ether. Its melting-point is indeterminate. The aqueous solution of emetine hydrochloride faintly reddens blue litmus; on the addition of a small amount of dilute hydrochloric acid it yields, on the addition of potassium iodide, a white precipitate which redissolves on heating. On cooling, the iodohydrate thus formed precipitates in the shape of very fine microscopic needles.

Tests.—Place 0.01 gram of emetine hydrochloride in a porcelain capsule; add 15 drops of sulphomolybdic reagent (0.01 gram of ammonium molybdate in 10 c.c. of sulphuric acid, 98 per cent.). A green coloration is produced, gradually changing to yellow, resembling the colour of gamboge, accompanied by effervescence due to the liberation of hydrochloric acid. To be kept protected from light in an amber-coloured bottle.

ETHYLMORPHINE HYDROCHLORIDE.—Ethylmorphine hydrochloride forms a white crystalline powder, consisting of fine needles; taste bitter; soluble at 15° in 12 parts of distilled water, and in 22 parts of alcohol (90 per cent.). It softens at 119°, and melts between 122° and 123°. An aqueous solution 1:20 is neutral to litmus; it is not reduced by iodic acid, and is not coloured blue by ferric chloride.

Tests.—Place in a test-tube 0.01 gram of ethylmorphine hydrochloride; add 10 c.c. of sulphuric acid (98 per cent.) and 1 drop of solution of ferric chloride (5.2:100); place the test-tube in the boiling-water bath; the acid liquid will soon assume a blue coloration, which, on the addition of 2 drops of nitric acid (63.64 per cent.) turns to red, then orange.

POTASSIUM SULPHOGUAIACOLATE.—Forms colourless crystals, possessing a slight odour of guaiacol and a bitter taste. Soluble in 5 parts of cold water, and in 350 parts of ethyl alcohol; insoluble in ether. Its aqueous solution 1:20 is faintly alkaline; on the addition of solution of ferric chloride (5.2:100) it assumes a dark reddish-violet colour. On being decomposed by heat, potassium sulphoguaiacolate emits an odour of guaiacol, leaving a neutral ash yielding the tests for potassium sulphate.

Test.—Place 0.20 gram of potassium sulphoguaiacolate in a tared porcelain crucible and incinerate until the residue is white. Cool, and incinerate again after adding a few drops of concentrated sulphuric acid. Renew this operation until weight is constant, when the weight of the residue should not be less than 0.064 gram, nor more than 0.072 gram. The aqueous solution 1:20 should not become turbid on the addition of sulphuric acid.

SODIUM PERBORATE.—Sodium perborate occurs as a white, crystalline powder, stable at ordinary temperature if kept protected from moisture. The pure salt liberates 10.38 per cent. of active oxygen. The aqueous solution 2:100 is alkaline to litmus, and to phenolphthalein. It yields the tests for solution of hydrogen peroxide; on adding 1 c.c. of dilute sulphuric acid to 1 c.c. of the above solution, 10 c.c. of distilled water, and 2 c.c. of ether, and 1 or 2 drops of solution of potassium bichromate (1:20), and shaking, a beautiful blue coloration of the ethereal layer appears. It also yields the tests for boric acid; on placing 0.05 gram of the salt in a capsule and adding a few drops of concentrated sulphuric acid and 1 c.c. of methyl alcohol, the solution burns with a flame tinged with green.

Assay.—Dissolve 0.25 gram of the salt in 50 c.c. of distilled water and 10 c.c. of dilute sulphuric acid. Add to this solution sufficient solution of potassium permanganate (3.16:1000) to produce a permanent rose colour. For this purpose at least 28 c.c. should be required, corresponding to 9 per cent. of active oxygen, or 86.5 per cent. for the pure salt. Sodium perborate should be kept in a well-stoppered dry bottle.

ZINC PEROXIDE.—The official product consists of a mixture of oxide and peroxide of zinc, containing at least 35 per cent. of the latter. It occurs as a white, odourless powder.

insoluble in water, soluble in dilute acids. The solution obtained by dissolving 1 gram of zinc peroxide in 10 c.c. of dilute sulphuric acid and boiling for five minutes presents the characteristic tests for zinc salts. A solution of 0.02 gram of zinc peroxide in 2 c.c. of dilute sulphuric acid, 10 c.c. of distilled water, and 2 c.c. of ether, yields, on shaking with 1 or 2 drops of solution of potassium bichromate (10:100), a beautiful blue colour in the ethereal layer.

Tests.—Mix 5 grams of zinc peroxide with 20 c.c. of distilled water and transfer the mixture to a filter. Collect 5 c.c. of filtrate and evaporate to dryness. The residue should weigh less than 0.01 gram. Dissolve 1 gram of zinc peroxide in 10 c.c. of dilute sulphuric acid and boil for five minutes. On the addition of hydrogen sulphide the solution should not yield a yellow, brown, or black precipitate (arsenic, metals).

Assay.—Dissolve 0.25 gram of zinc peroxide in a mixture of 50 c.c. of distilled water and 10 c.c. of dilute sulphuric acid. Add sufficient solution of potassium permanganate (3.16:1000) to produce a permanent rose colour; for this purpose at least 13 c.c. should be required, corresponding approximately to a content of 35 per cent. of zinc peroxide. A salt containing 40 per cent. requires 20.7 c.c. of solution of potassium permanganate.

With regard to the modifications in existing official preparations, we note that the present tincture of iodine (a solution of 10 grams of iodine in 90 grams of alcohol 95 per cent.) is to be deleted, and the title of the Iodised Tincture of Iodine (*Teinture d'iode iodurée*) contained in the Supplement issued in 1920, is to be altered to Official Tincture of Iodine (*Teinture d'iode officinale*). This preparation has the following composition:

Iodine	...	...	...	10 grams
Potassium iodide	...	...	...	4 grams
Alcohol (90 per cent.)	...	...	...	136 grams

The following method of assay is now introduced for this tincture: Add 2 c.c. of tincture of iodine to a mixture of 25 c.c. of distilled water and 0.5 gram of sodium iodide. Add, until decoloration is obtained, *N*/10 solution of sodium thiosulphate; for this purpose 10 to 10.5 c.c. of solution should be required, corresponding to a content of 6.22 to 6.27 grams of free iodine in 100 grams of tincture. Add to the decolorised solution 2 c.c. of a solution of 5 grams of potassium iodate in 100 grams of water; no coloration should be produced by the liberation of iodine (hydroiodic acid).

The Royal Society

THE spring conversazione of the Royal Society was held at Burlington House, Piccadilly, London, W., on May 17. Sir William Bragg and Professor W. L. Bragg had arranged a number of models of crystal structure, as determined by x-ray analysis, which show with great accuracy the size of the cell containing the unit of pattern of the crystal. In some simple cases the positions of the atoms in the cell are known with equal precision; in others the approximate positions can be inferred. The distance between the centres of two neighbouring atoms is generally known with much more accuracy than the radius of either. The models of organic crystals are based on the principle, which seems to be justified by success, that the benzene and naphthalene molecules are actual frameworks of definite dimensions. The scale of most of the models is 100,000,000:1. A microscope which can be adapted for either monocular or binocular vision in a few seconds is being shown by Ogilvy & Co. Binocular vision is used for inspection of the slide, and when occasion arises for making a photograph or sketch, the monocular eye-piece can be substituted; the only other disturbance necessary being a slight adjustment for focus. Fossil and recent plants from West Greenland are being shown by the Botany School, Cambridge, to demonstrate the contrast between the present vegetation of Greenland (69°-71° N. Lat.) and that of the Cretaceous epoch. Special attention is called to the abundance in the Cretaceous flora of ferns hardly distinguishable from existing species of the tropical and subtropical genus *Gleichenia*, to the occurrence of many conifers—the only conifer living in Greenland is a juniper, confined to South Greenland—broad-leaved deciduous trees, and Cretaceous fungi. Professor H. B. Baker, F.R.S., is showing that by the long drying of certain liquids,

including mercury, benzene, bromine, alcohol, and ether, the boiling-point is considerably raised. The liquids are dried by means of phosphorous pentoxide for a period of seven to nine years. The rise in the boiling-point, we were told, is probably due to the increase in size of the molecules, an explanation which is supported by the rise in the surface tension of the liquids. Dr. J. S. Anderson, of the National Physical Laboratory, is showing two sets of apparatus—one for measuring the internal diameter of a transparent tube, and the other for measuring small differences in the refractive indices of two similar liquids. One of the liquids is contained in a right-angled cell which is immersed in the second liquid. The deviation of a parallel beam of light on passing through the two cells is measured, and from it the difference in refractive index can be deduced by means of a simple formula. The method is applicable to such problems as the comparison of the salinities of different samples of sea-water and the determination of the relative degrees of purity of various liquids. The internal diameter of the tube is measured by immersing it in a suitable liquid and varying the wave-length of the illuminating beam until equality of refractive index is obtained, when the tube can be measured directly. The former method of doing this was to vary the liquid in which the tube is immersed instead of the wave-length of the light. An interesting exhibit is that by Dr. Kaye and Dr. Griffiths, of the National Physical Laboratory, one section of which shows fluorescence under ultra-violet light and some of the uses made of it, such as detection of certain metals in ores. Another portion deals with an automatic device for operating a ventilating valve, while a third consists of an apparatus for the comparison of different types of hygrometers. A portrait of considerable interest is that of Galileo by Justus Sustermans, painted when Galileo was about seventy-five years of age. The astronomer is represented seated in a chair, holding a vellum telescope in his right hand. Padua, it may be mentioned, this year celebrates the 700th year of the foundation of its University, in which Galileo was professor of mathematics from 1593 to 1609. The effect of pituitary extracts on frog melanophores is demonstrated by microscopic slides, prepared by Dr. Lancelot Hogben and Mr. F. R. Winton, who state that injection of 0.00025 c.c. of a 20 per cent. extract of fresh pituitary gland (posterior lobe) is sufficient to induce a general condition of melanophore expansion with an intense visible darkening of the skin in the common frog. This effect is highly specific and is the reverse of that produced by adrenalin which contracts pigment cells. The substance responsible is probably identical with that which causes uterine muscle to contract. For those interested in atmospheric pollution, the exhibit of the Advisory Committee on that subject is of interest, particular attention being called to Brownian movement shown by smoke. According to Sir Almroth Wright, F.R.S., who deals with methods of measuring the bactericidal potency of the blood fluids and leucocytes, microbes of disease can be sorted out into two classes, those that can, and those that cannot, grow in the normal blood fluids. They also show, with regard to the microbes that give origin to "blood poisoning" and septicemia, that capacity for growing in the blood fluids depends on capacity for overcoming the normal anti-tryptic power of the blood and digesting its albuminous substances. There is exhibited also a simple technique for measuring the bactericidal power (a) of the blood with its complement of active leucocytes, (b) of the blood with its leucocytes inactivated, and (c) of the blood fluids separately.

THE draughts club associated with the Thornton alkali and chemical workers is this season's champion of the Fylde district.

A CHEMISTS' SECTION has been formed in the Guernsey Chamber of Commerce, of which Mr. F. H. Delarue, chemist and druggist, is a Vice-President.

THE public analyst for Lambeth reports that three informal samples of borax, two of ammoniated tincture of quinine, and one of Gregory's powder were found to be adulterated during the past quarter.

The Dental Board

THE second session of the Dental Board of the United Kingdom opened on May 9 at 44 Hallam Street, London, W. The chairman, Mr. Francis Dyke Acland, M.P., delivered the opening address, in the course of which he reviewed the work done by the Board since its foundation five months ago. In the three months that have elapsed since the Regulations were made 9,939 forms of application have been issued, of which 6,276 were in the case of persons who desired to claim having been in practice for five of the last seven years, and 1,242 in the case of persons who desire to take the examination as mechanics. The actual applications which have been received number 6,765, of which 4,294 were from men claiming to have been in practice for five of the past seven years; 1,551 from members of the Incorporated Dental Society; 423 from mechanics; 271 from persons in practice at the time of the passing of the Act, who have, like the mechanics, to pass an examination before being registered; and 226 from chemists alleging that they had at the commencement of the Act a substantial practice as dentists. In the case of not less than 4,035 of the 6,765 applications the Board have already been satisfied with the application, and the names have been published. Of this number 2,200 are persons who have been in practice for five of the last seven years; 1,400 members of the Incorporated Dental Society; 275 mechanics; 116 persons in practice at the date of the passing of the Act; and 94 chemists. The number actually registered is smaller owing to the time of publication not having elapsed. It amounts to 1,650, of whom 1,240 are members of the Incorporated Dental Society, and 368 persons in practice for five of the last seven years. A further number of about 600 in the latter category will be added to the Register when the month of publication expires.

EX-SERVICE MEN

A most difficult matter which has occupied the attention of the Board, and has several times come before its Registration Committee, is the question of how to deal fairly and justly with the claims of ex-Service men. The Act lays down as the normal criterion of competence that an applicant shall have been in practice for five of the last seven years. This is clearly not possible in the case of ex-Service men, and therefore the Registration Committee has unhesitatingly decided that applicants who can show five years' practice, however much it has been interrupted by war service, should be registered. The main difficulty has, however, arisen in two cases. First, that of men who claim that they were actually engaged in the practice of dentistry as their principal means of livelihood while in the Army, and therefore claim this period as making up the five years; and, second, that of men who have had less than five years' actual practice of dentistry. In the case of persons claiming to count time spent in the Forces, it would perhaps be natural to argue that in all cases their principal means of livelihood was service in the Forces, and not service in their profession. The Board have, however, not taken so narrow a view, and are willing to count the time spent by persons in the Services employed in carrying out the dental treatment of troops as having been engaged in dentistry as their principal means of livelihood. In the case of Army service, however, the War Office has made it clear that the only persons so employed were persons registered under the Dentists Act of 1878, who were granted temporary commissions, and the Registration Committee has considered itself thereby debarred from having to consider an enormous number of applications, from persons who only claim to have carried forceps in their haversacks upwards. In the case of persons who served in the Forces but have not completed five years' practice of dentistry as their principal means of livelihood the Board are in a dilemma. They are told in Section 3 (4) of the Act that they may dispense with any of the requirements of the section, other than those referring to age and character, if they are satisfied that applicants are unable to comply with these requirements by reason

of having served in His Majesty's Forces, or of having been engaged during the war in some work of national importance. This naturally would, and does, make us all wish to deal as leniently as we possibly can with ex-Service cases; but the sub-section continues by saying that the Board must be satisfied that it will not be prejudicial to the public interest to dispense with these requirements. A question at once arises whether, as the Act requires a five years' practice, or, as an alternative (from persons actually in practice at the date of the passing of the Act), the submission to and passing of an examination, it will not be prejudicial to the public interest if ex-Service men who have practised for less than five years are allowed to be registered unless they also will submit themselves to an examination. It has seemed to the Registration Committee hitherto so difficult, as the Act lays down a general requirement of five years, for the Board to say that, in the case of ex-Service men, it will be satisfied with a less period (if, for instance, they would be satisfied with four years, why not three and a-half; and if three and a-half, why not three, and so on) that we have thought it right to say that, if the period of practice is less than five years, the examination must be taken. We have also said that, in the case of ex-Service men, there shall be no fee for this examination, and, presumably, whereas persons claiming to have been in practice on the date of the passing of the Act, who were not ex-Service men, have to pass the examination within two years from the passing of the Act—i.e. by July 23 of next year—ex-Service men need not be limited as to date, and can in other ways be assisted with regard to passing.

THE OFFENCE OF "COVERING"

After referring to the complaint of high fees charged for registration, the chairman said that in regard to the employment of unqualified assistants there appears to be much misapprehension, for which, however, there seems not to have been sufficient justification. Some who employed unregistered persons have thought that if they had no branch practice which was being conducted by an unregistered person, and if this person was working on their own premises, no offence had been committed. This view is incorrect. It is permissible for an unqualified person to adjust in the mouth a denture which he has made in the workroom, or to do mechanical work of a similar kind, but it is not permissible for him to extract teeth or attend or treat patients in any matter requiring professional knowledge and skill. Others seem to have been misled into thinking that, if they employed a *bona-fide* student, they would be protected by the words occurring in the warning notice, which say that the restriction is not to prevent the instruction of students. They have not, however, appreciated that students may only be registered as the pupils of registered practitioners for mechanical work, and that to employ a third or fourth year student to attend or treat patients would not come under the heading of the instruction of students, and would not be permissible.

"INFAMOUS" CONDUCT CHARGES

A number of charges against registered dentists of covering unqualified persons were investigated, the Board usually contenting itself with the decision that the case "has been proved to the satisfaction of the Board." Further action will be taken at a later sitting.

It was reported that the Home Office has sent out a letter to chief constables in England and Wales asking them to give assistance in reporting to the Dental Board regarding persons whose personal character is believed to render their registration undesirable.

A motion to publish monthly the names of persons admitted to the Dentists Register was defeated.

LONDON FAIR AND MARKET.—The fourth annual London Fair and Market opens at the Royal Agricultural Hall, Islington, N., on July 3, and closes on July 14. The office of the Fair is at Broad Street House, E.C. 2.

Westminster Wisdom

By the "C. & D." Parliamentary Representative

TABLE-WATER DUTIES

The Chancellor of the Exchequer stated in the House of Commons, on May 15, that the net annual receipts from table-water duties for each of the financial years 1916-17 to 1921-22 was as follows :

Year ended 31st March,		£
1917 ...	...	1,170,801
" " " 1918 ...	...	1,332,357
" " " 1919 ...	...	1,452,952
" " " 1920 ...	...	1,371,756
" " " 1921 ...	...	1,196,415
" " " 1922 ...	...	1,173,000 (approx.)

It is not possible, he said, to furnish a reliable estimate of the cost of collection of these duties, the work in connection therewith being merged in the ordinary duties of the Revenue staff.

PERFUMERY SPIRITS DUTY

Mr. Lyle asked the Chancellor of the Exchequer on May 11 if he is aware that the present duty of 74s. per proof gallon on perfumery is crippling the industry; whether he will consider the question of separating the perfumery trade from the potable spirits industry and a lower and different duty for the trade; and, if this is not possible, whether he can see his way to amend the existing law to permit of perfumery being manufactured in bond for home trade, and to enable manufacturers to mature the spirit in bond and so release capital.

Sir R. Horne replied that he was aware that representations have been made in the sense mentioned, but he was unable to adopt either suggestion.

DYE IMPORTATION

During a discussion on the supply vote of the Board of Trade in the House of Commons on May 11, Mr. W. J. Uglow Woolcock, as a member of the Licensing Committee under the Dyestuffs Act, defended the policy of the Committee. Licences had been granted for importing 3,500,000 lb. of dyes and refused in the case of 2,500,000 lb. He gave particulars of the system that is being carried out by the German makers of cutting the prices of dyes which are also made in England, and charging high prices for dyes not made here. The increased cost of German dyes is from four to seven times the pre-war charge. The aim in the Development Committee and the Licensing Committee is quite simple. "We believe," he said, "that in the interests of national safety you have to establish a synthetic colour industry here. We believe that that industry has to be established at the lowest possible cost to the colour users who have to use the colours produced by the industry. We believe that if we can have the co-operation of the colour users—we have the co-operation of the majority of them, and it is only a very few, an influential few, I admit, who are at the moment not co-operating—and the sympathetic assistance of this House, we shall ultimately establish in this country a weapon which will not only be a national insurance in time of war, but a commercial insurance for the colour-using industry of this country."

MERCHANDISE MARKS BILL.

This Bill was considered in Committee in the House of Lords on May 16. On Clause 1, which deals with power to require indication of the origin of imported goods where their make-up "gives a false impression," Lord Asquith moved an amendment that such indication should be given in cases where the Board of Trade was of opinion that it was "in the public interest." This Bill was supposed to be an endorsement of the report of the Committee over which Sir Auckland Geddes presided in 1919, but it did not appear to come up to the report on its main recommendation. No notice was taken in the Bill of the recommendation to deal with unfair competition as being a cause for marking goods in special cases. Lord Stuart of Wortley, in seconding, contended that to limit the discretion of the Board of Trade would practically

invite the difficulties which experience had shown over and over again. Lord Gorell, in resisting the amendment, said that the purpose of the Bill was to prevent fraudulent imitation. The amendment would altogether widen the scope of the Bill, and take away its non-controversial character. It would further have the disadvantage of placing very wide powers in the hands of the Board of Trade. The Government was not prepared to widen the main clause of the Bill so as to bring the measure back into high controversy, and also to give it a protective flavour, which was not its purpose. The amendment was negatived. The Bill passed through Committee, and was reported to the House.

SAFEGUARDING OF INDUSTRIES ACT

Radium Bromide

Lieut.-Colonel Guinness asked the President of the Board of Trade, on May 15, whether radium bromide is now subject to an importation duty under the Safeguarding of Industries Act; and, if so, whether he will take steps to remit this duty in the case of all radium for therapeutic purposes.

Mr. Baldwin said the answer to the first part of the question is in the affirmative. He has no power to take the action suggested in the latter part of the question.

Synthetic Camphor

Mr. Hogge asked the President of the Board of Trade if he will give the date when he received notice of objection to the imposing of a duty upon the importation of synthetic camphor; when the same was submitted to the Referee; when a decision is likely to be arrived at; and if he is aware that these prolonged delays entail serious inconvenience to industry.

Mr. Baldwin replied that the formal notice of objection was served by the complainants on December 28. The necessary statements by both sides were completed by March 28 and the hearing was opened on April 1. Further proceedings were delayed by the illness of the Referee until April 29, when the second and final hearing took place. He had no doubt the decision would be given as soon as possible. He fully appreciated the desirability of avoiding delay, and there has been no avoidable delay by the Board of Trade in this case.

The Referee's Decisions

Dr. Murray, on May 15, asked the President of the Board of Trade (1) if he is aware that sodium pyrophosphate (cream of tartar substitute) is still retained in the key list under Part I. of the Safeguarding of Industries Act, 1921, although the recent decisions of the Referee on points of principle in connection with the cream of tartar appeal definitely ruled that its inclusion was improper; and if he will take steps to have this product, with some hundreds of others that are equally affected, removed from the key list without delay; (2) if he is aware that the Referee's decisions on points of principle already given in connection with appeals against the inclusion of certain products in the key list under Part I. of the Safeguarding of Industries Act, 1921, have only been applied to products against which formal notice of appeal had been lodged by their deletion from the key list, and that a number of other products against which formal notice of appeal had not been lodged, but which are equally affected by the Referee's rulings, are still retained in the key list; and whether he will order the immediate removal from the list of all such products.

Mr. Baldwin replied that for the purpose of reducing the number of cases to be heard by the Referee, he (Mr. Baldwin) had examined the views the Referee had expressed in awards already given in their bearing on the complaints not yet heard. As a result, certain amendments of the list issued under Section 1 (5) of the Act have been made. Sodium pyrophosphate has not been the subject of any formal complaint within the terms of Section 1 (5), and was accordingly outside the scope of his review.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres

ENGLAND

Derby.—At a meeting of the Insurance Committee on May 17 the receipt was reported of a protest by Mr. W. Elmitt, one of the chemists on the panel and a member of the Committee, against the revised conditions of service. A letter was also received from the Pharmaceutical Committee expressing their disapproval of any alteration of the present prescription form. It was decided that, pending alterations contemplated by the Ministry, the use of the present form be continued. The Pharmaceutical Committee agreed to the chemists' accounts being paid in full each month, and the clerk was authorised to undertake tests of the drugs, medicines, and appliances supplied by chemists. The number of prescriptions issued in 1921 was 141,319, the average ingredient price was 5.1d., and the average dispensing-fee 5.3d. There were 239 "urgent" fees, amounting to £4 17s. 10d.

Kent.—At a meeting of the Insurance Committee, on May 10, the Medical Benefit Sub-Committee reported that they had formulated a scheme for the analysis of medicines, etc. The Finance Sub-Committee reported that during 1921 the number of prescriptions was 767,252; the ingredient prices amounted to £16,383 6s., and dispensing-fees to £17,428 10s. 7d. The average ingredient price was 5.1d.; dispensing-fee, 5.5d. In the quarter ended December 31, 1921, the number of prescriptions was 205,412, and the value of scripts £8,950 2s. 6d.

London.—A meeting of the Pharmaceutical Committee was held on May 9, Mr. H. Skinner (vice-chairman) presiding. The report of the Central Checking Bureau for February showed a margin of error of 0.06 per cent. The secretary gave the following data on dispensing during 1921:

Cost of ingredients	£84,399 19s. 6d.
Cost of dispensing-fees	£120,912 14s. 11d.
Number of prescriptions	5,372,444
Number of insured persons on list	1,604,688 (av.)
Average ingredient cost per prescription	3.77d.
Average dispensing-fee cost per prescription	5.40d.
Total cost per insured person	30.71d.
Total number of prescriptions per person	3.35

Particulars of the mass meeting of London panel chemists held on April 11 and of the action taken by individual chemists throughout London protesting against the reduction of dispensing-fees were given. The secretary also reported on the National Citizens' Union; on the continued use of triplicate prescription-books by the Surrey Insurance Committee and that Committee's objections to the use of single-sheet prescription-books; that 3,158 "urgent" prescriptions were dispensed during 1921 at an average cost of 10.81d.; that 751 prescriptions were submitted to the Insurance Committee by doctors for 1921 for drugs, etc., supplied personally to insured persons. The average cost was 19.61d. Also, the Insurance Committee at their last meeting (i.) concurred in the decision of the Panel Committee that pil. colocynth. co. should be dispensed when pil. aperiens is prescribed, and (ii.) that the attention of insurance practitioners and chemists be drawn to the fact that a practitioner is required to supply to a patient, where requisite, such drugs and appliances as are necessarily or ordinarily administered by a practitioner in person. Particulars of dispensing for February 1922 are as follows:

Value of ingredients	£ 7,797 12 1	No. of scripts	430,689
Value of dispensing-fees	12,278 19 3	No. of prescriptions	526,723
		Av. ingredient cost	3.55d.
		Av. dispensing-fee cost	5.60d.

A standing committee was appointed to go fully into the question of remuneration for Insurance dispensing.

Shropshire.—At a meeting of the Insurance Committee, on May 6, it was reported that the Panel Committee had submitted a formulary to Insurance chemists for their

adoption. The Insurance Committee declined to accept the formulary suggested and decided that the prescribing by the doctors should go on as hitherto.

Winchester.—As about 90 per cent. of the urgent fees for the county of Hampshire were for Winchester an inquiry was held, at which it was resolved, on the proposition of Mr. F. B. Wride, to call a meeting of local panel doctors and chemists, together with three members of the Medical Benefit Sub-Committee. The Winchester chemists held a meeting among themselves, and Mr. Wride, at the conference with the sub-committee, stated the case for the chemists. A compromise was arrived at whereby the doctors agreed to open earlier and the chemists to close at 7.30 p.m. An unregistered contractor was removed from the list of persons supplying drugs and appliances for having dispensed contrary to his agreement, and for having dispensed a prescription containing scheduled poisons, but omitting the poisons. He is to refund £7 10s. 6d.

Association Affairs

Birmingham.—On May 3 members, associates, and friends of the Birmingham Pharmaceutical Association, numbering upwards of 100, paid a visit to a brewery and bottling store of Mitchells & Butlers, Ltd. The size of the premises and plant, the organisation and cleanliness displayed, and the ingenuity of the machinery particularly impressed the visitors. An excellent tea was provided by the firm, and the President of the Association (Mr. J. W. Atkinson) expressed thanks for the invitation and entertainment. A collection on behalf of the Benevolent Fund of the Pharmaceutical Society realised £4 7s. 2d.

Cardiff.—A meeting of the Cardiff Pharmacists' Association was held on May 9, the President (Mr. A. J. Harris) presiding. A vote of condolence was passed with Mr. Hagon in his recent bereavement. The following were elected delegates to the Chamber of Trade during the ensuing year: Mr. A. J. Harris (Vice-President of the Chamber of Trade), Messrs. Jesse Mason and Edwin Poole. It was decided to suggest that one vote be given to Mr. H. M. Lloyd (Merthyr) at the forthcoming Council election. The President summarised the meeting of the South Wales Federation held at Neath, at which he was a delegate. A resolution of appreciation of the eighteen years' service as a member of the Council to Mr. Hagon was unanimously agreed to. This will be engraved on vellum and presented to Mr. Hagon.

Ealing.—The annual meeting of the Ealing Pharmacists' Association was held on May 9, Mr. Marns (President) in the chair. The secretary (Mr. H. R. Storm) read the report and balance-sheet, which were approved. Officers were then elected for 1922-23, as follows: *President*, Mr. Thomas Marns; *Vice-President*, Mr. Irwin; *Secretary*, Mr. H. R. Storm; *Treasurer*, Mr. Edkins; *Social Secretary*, Mr. Arnold Roberts; *Auditor*, Mr. H. Skinner; *Committee*, Messrs. Flood, G. W. A. Thompson, Hugo Wolf, Ironmonger, Hutcheon, Edwards, Blair, and Norris. It was decided to admit assistants and apprentices as associate-members. A summer outing was decided upon, provisionally for June 25.

Salford.—The annual meeting of the Salford Pharmaceutical Association was held on May 11, Mr. G. J. Blore (President) in the chair. The report of the work done during the session was read by the secretary. The treasurer (Mr. H. Bellringer) presented his report and balance-sheet, showing a balance in hand of £28 11s. Votes of thanks were passed to the officers, and also to Mr. W. F. Cuttifford (chairman) and Mr. E. H. Simmons (secretary) of the Pharmaceutical Insurance Committee. Messrs. Davison, Harrop, and Simmons were elected to the Council, and the following officers were elected for the ensuing year: *President*, Mr. H. Bellringer; *Treasurer*, Mr. H. Stout; and *Secretary*, Mr. J. A. Dyson. The subscription was reduced to 5s. per annum. It was agreed to join the proposed Manchester, Salford and District Branch of the Pharmaceutical Society.

Safeguarding of Industries Act

Glass Bottles

A COMMITTEE appointed by the Board of Trade under Part II. of the Safeguarding of Industries Act, to consider a complaint with regard to the importation of glass bottles from Holland and Germany, commenced its sittings on May 15. The Committee consists of Mr. C. A. Russell, K.C. (chairman), Sir Cecil L. Budd, K.B.E., Mr. Owen Parker, C.B.E., J.P., Mr. E. W. Rainer, and Mr. James Rowan, J.P.

THE COMPLAINANTS' CASE

Sir Arthur Colfax, K.C., opening the case for the complainants, said that he, together with Mr. Whitehead, appeared for the Association of Glass Bottle Manufacturers of Great Britain and Ireland. The application, he explained, was also supported by the Joint Industrial Council for the Glass Industry (Bottle Section), by certain other manufacturers' associations, and practically the whole of the glass-bottle manufacturers in the United Kingdom. Both masters and men supported the application, and there was opposition from the China and Glassware Section of the London Chamber of Commerce, which was represented by Mr. T. W. H. Inskip, K.C., M.P., and Major Mackenzie Wood, M.P.

Continuing, Sir Arthur said that the Association represented about 75 per cent. of the productive capacity of Great Britain and Ireland, and consisted of twenty-eight glass-bottle manufacturers. The principal countries in which glass bottles were made were Germany, Holland, Czechoslovakia, and the United States. The present application concerned only Germany and Holland. In the case of Germany it was based on the depreciated currency, by reason of which bottles made in Germany were being sold in this country at less than the cost of production here, and in respect of Holland the complaint was that bottles manufactured there were being sold here at less than the cost of production (as defined by the Act) in Holland. The application extended to all types of bottles. Dealing with the history of the industry in this country, Sir Arthur said that in the early 'eighties it was in a robust condition, but later it fell upon evil days, and in 1907 it became necessary to make some arrangement if the industry was to revive. He made a reference to the formation of the British Association of Glass Bottle Manufacturers, Ltd., which was referred to in the original statement of the complainants' case, which had been handed to the Committee.

THE ERA OF MACHINERY

In 1907 the Owens bottle-making machine, designed to produce large quantities of bottles of standard sizes and shapes, of a superior quality, was demonstrated in this country. The patent rights of this machine for the greater part of the world were offered for sale by the American inventors for £600,000, but although the merits of the machine were immediately recognised, no one country in Europe was alone able to raise such a large sum for the right to make use of patents. Subsequently, the principal bottle manufacturers in the United Kingdom, Germany, Austria, Holland, Norway, Sweden, and Denmark came to an arrangement to purchase the patent rights jointly. The capital required in respect of each country was raised by means of a company formed by the various manufacturers in each country, and some of the principal manufacturers of Great Britain and Ireland formed the British Association of Glass Bottle Manufacturers, Ltd., for this purpose, which body also granted licences for the use of the Owens machine. In order to avoid a sudden upheaval as regards labour and factory organisation and equipment, which many manufacturers were incapable of financing immediately, each country undertook to limit the number of machines which might be installed during the next few succeeding years, and also agreements were entered into by the countries named whereby prices were fixed, and were to be maintained by all manufacturers taking part in the arrangement. By reason of that agreement, therefore, the British glass-

bottle industry began to revive. Prior to 1914 only six Owens machines had been installed in this country. But a great deal was done during the war period, and towards the end of the war the essential requirements of this country were supplied by British manufacturers. After the war the manufacturers made up their minds to oust the foreigner from this market, and nearly two and a-quarter millions was spent in further equipment, extensions, modernising plant, and so forth, between the date of the termination of the war and 1921. Machinery was of the greatest importance in this industry, and in this connection Sir Arthur pointed out that very considerable strides had been made in this country in providing machinery of the best character for glass-bottle manufacture, whereas, since the war, Germany had done very little in the way of providing herself with machinery. No fewer than seventeen Owens machines had been installed in this country since 1914, in addition to which twenty-three other automatic machines—not semi-automatic—had been installed by members of the Association alone. So far as he knew, there had not been more than two of the latest type of Owens machine installed in Germany since 1914, and none of the most efficient of other types of machines had been installed there. He would satisfy the Committee that manufacture in this country was very efficient. As to the semi-automatic machines, nearly a hundred had been installed by members of the Association alone, and many more by other manufacturers. Great strides had also been made on the technological and scientific side, and output capacity had been considerably increased. He handed in a document which showed that, taking an average of twenty bottle-making firms, their output capacity had increased about 136 per cent. In addition, the output per worker had increased, no doubt due to the extension of the use of machinery. Those figures related to the period between 1913 and 1921.

UNEMPLOYMENT IN THE GLASS INDUSTRY

Unemployment in the industry was a very serious matter, and there was no question that the full output capacity of the industry could not be used owing to the competition of which his clients complained. At the end of 1921 there were 2,000 fewer people employed by the twenty firms than in 1913. In December 1921 the number of workers in the glass-bottle trade unemployed was 4,700; not only could the industry employ all those, but substantially more if it could avail itself of its present output capacity. If the industry as a whole were running at a normal rate he understood that it could employ about 8,000 more people than were employed at present. In Germany there had been a shortage of coal, but now that brown coals and lignites were being increasingly used for other purposes there would be more of the kind required for the manufacture of glass bottles available; during the period in respect of which the complaint was made there had been a limitation of output in Germany. It would be appreciated that the cheapest production was brought about by the use of machinery, yet in Germany they employed hand labour, and did not use machines until the whole of the hand labour available had been absorbed, so that in a considerable measure the low prices charged were in respect of bottles produced by more expensive methods. He handed to the Committee a document setting out comparative prices of British and German bottles, and pointed out that present prices in Great Britain were about 89 per cent. above those obtaining in pre-war times. Previously prices had been controlled, but they were not now so controlled, and it had been noticed that as and when reductions in prices were made here the prices of German-made bottles were also reduced. Germany was fully employed in this industry, so far as coal supplies permitted. Comparing the external with the internal value of the mark, Sir Arthur said that in preparing the figures handed in the Association had taken the basis of the mark being worth two and a-half times as much in Germany as outside; that was a conservative basis. It was that difference that was the weapon of competition. The applicants had not been able to extend their application to include Czechoslovakia, because the exchange had been fluctuating so wildly that

it was difficult to get at what was the par value of the exchange.

In regard to Holland, the prices at which Dutch-made bottles were being sold here were also handed in, as well as comparisons of British and Dutch costs of production. Almost all the bottle works in Holland were closed, and the industry there was undoubtedly having a bad time. It was clear that the prices at which they were selling in this country were unremunerative. In conclusion, counsel said that the applicants only asked that a duty of 33½ per cent. should be imposed upon empty bottles imported, and not upon bottles and their contents.

FOREIGN COMPETITION

Mr. G. E. Alexander (chairman of the Association of Glass Bottle Manufacturers of Great Britain and Ireland, managing director of United Glass Bottles, Ltd., and a director of a number of other companies manufacturing glass bottles) emphasised the considerable amount of unemployment in the trade in this country caused by the importation of German and Dutch glass bottles, and that the British glass-bottle industry to-day was, owing to the vast improvements made, not to be compared with the industry in 1914. He handed in a number of documents concerning quotations from German and Dutch manufacturers, comparative railway rates, and reports of investigations carried out in those countries. A very thorough investigation had been made in Germany and Holland by the Association of Glass Bottle Manufacturers of Great Britain and Ireland, which confirmed many of the statements made in the memorandum which set out the complainants' case, and a report of this investigation showed that if the exchanges were normal the prices of German bottles would be substantially higher than the corresponding British bottles; it also showed that Dutch-made bottles were being sold in this country at prices below those obtaining in Holland. There was an official price list of the Dutch Glass Bottle Manufacturers' Association, from which prices given to the Committee had been obtained. A report by the American Consul-General at Rotterdam pointed out that Germany could obtain more orders than she could deal with at similar prices to those quoted by the Dutch manufacturers, and there was no reason why Holland could not do the same, except that it did not pay her to do so. Mr. Alexander said that he was in Germany in October 1921, and was informed by German manufacturers that the production of bottles was considerably restricted owing to the shortage of coal, and this was given as the reason why they could not deal with more orders for the British market.

Answering a question by Sir Cecil Budd, Mr. Alexander said that the manufacture of glass bottles in this country last year was carried on at a very heavy loss. It was pointed out by Sir Cecil Budd that imports of glass bottles from Germany were 936,917 gross in 1913, and 330,349 in 1921, a considerable reduction, but witness said it was the opinion of the Association that a large number of German bottles came through Holland.

Continuing his evidence on May 16, Mr. Alexander promised to furnish the Committee with details of costs of production on behalf of United Glass Bottles, Limited. He stated that there was in operation a very good system of costing there.

Mr. Inskip, for the opponents, asked which of the documents he would be allowed to see, in order that he might prepare his case, and the Committee deliberated on this point. It was decided that he should be given copies of the quotations received from German and Dutch firms, but that the names of the firms should not be disclosed. There were certain other of the documents which were to be handed to him.

Mr. R. S. Biram (general manager of E. M. Patents, Limited) said he had prepared the original statement of the case for the complainants, which had been submitted to the Board of Trade, and gave details as to the source of the information contained therein. Many questions were put by various members of the Committee in this connection. As to the effect of the exchange, and the difference between the internal and external value of the mark, he said that internally something less than 340 marks

would do the work of £1 sterling, whereas externally, on February 15, 1922 (the date of the statement), it took rather more than 800 marks to do the work of £1 sterling.

THE WORKMEN'S VIEW

Mr. John Stokes (secretary of the London Glass Blowers' Trade Society, and general secretary of the National Federation of Glass Workers' and Kindred Trade Unions) confirmed the statements that the importation of German and Dutch glass bottles had caused serious unemployment in the London glass-bottle manufacturing industry. He handed to the Committee a schedule giving particulars of membership of the London Glass Blowers' Trade Society, and particulars of unemployment, exclusive of sick, superannuated, honorary and casually employed members. Sixty members were unemployed in December 1913 out of a membership of 469. In March, 1920, the membership was 678, which grew to 853 at the end of that year. During the first three quarters of 1920 there was no unemployment among the members, but in December there were 274 unemployed. On April 22, 1922, there were 782 members, of whom 302 were unemployed. From these figures it would be noticed that during the period in which it was difficult to obtain supplies from abroad the men were fully employed, but with the removal of restrictions and the increasing difference in the rates of exchange, unemployment set in. This was particularly noticeable in November 1920. New methods of production had been introduced, which meant increased production, and many of the unemployed were being driven to the view that either there were too many in the trade, through having agreed to the Government request to dilute labour during the war, or that they had produced too much and were idle in consequence. London was for many years the centre of the small flint-glass bottle trade, a class of work requiring great skill and speed on the part of the workers, but in spite of the fact that it was the lowest paid, this trade had steadily fallen off.

Mr. John Thompson (secretary of the National Federation of Glass Bottle Workers of Great Britain and Ireland, general secretary of the National Glass Workers' Trade Protection Association, chairman and joint secretary of the Joint Industrial Council for the Glass Trades, and a member of the Executive Committee of the International Federation of Glass Workers) also spoke of the serious unemployment caused by the importation of Dutch and German glass bottles. Only 49.30 per cent. of the working membership of the National Federation was at present employed. Many of the factories were at a complete standstill, and many more were only working 25 to 50 per cent. of their plant. He had recently visited Germany, and had found every glass-bottle factory that could be manned by workmen fully employed. There was no unemployment in the glass trade in Germany at the time of his visit, nor was there at present a single person unemployed who was capable of employment in the glass trade in that country. The wages of the bottle-workers in Germany in 1914 were 27m. per week on an average, but in February 1922, when he visited the country, the average wages were 650m. per week. Since February the mark had depreciated further, and a joint committee of employers and workmen met every three or four weeks to adjust wages according to the cost of living, which was rapidly increasing. At present the wages were from 1,000m. to 1,200m. per week, the latter being the maximum, and representing anything from 16s. to 19s. in English money. He believed that a duty on German and Dutch bottles would considerably improve employment in this country, for the reason that British manufacturers would then be able to compete with the German and Dutch manufacturers, which was at present impossible. As to the Netherlands, while only three factories out of sixteen were working, the imports of bottles were much higher than before the war, when more factories were working. These imports were increasing, and there was reason to believe that bottles were exported from Germany to Holland, and re-exported to Great Britain, at a figure below the cost at which similar bottles could be produced here.

The Committee then adjourned until May 23.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, May 18

THERE are few features to report in the Mincing Lane produce markets, but a favourable point is the steadiness of most prices in view of the little business passing. A substantial reduction of 12s. 6d. per cwt. has been made in the price of glycerin, due probably to the continual importation from the Continent at competitive prices and the heavy stocks. Citric acid and tartaric acid both have a firmer tendency, and with the advent of warmer weather should further increase in price, as consumers have very small stocks. Good white chamomiles are almost unobtainable. So-called Maltese cut orange peel is held for higher prices. Cascara sagrada and balsam Peru have an easier tendency. Belladonna root is cheaper. Japanese refined camphor is quiet; cod-liver oil is lower, with prices somewhat nominal. Ipecacuanha is steady, and shellac has declined about 10s. per cwt. on the spot on an unsettled market.

Higher	Firmer	Easier	Lower
Albumen	Aloes (Cape)	Balsam peru	Antimony
Cocaine	Cadmium	Bergamot oil	Belladonna root
Gum acacia	Citronella oil	Camphor	Chloroform
Litharge	(Cey.)	(Jp. ref. slabs)	Cinnamon leaf
Orange-peel	Lemongrass oil	Casarea	(Cey.)
Soda prussiate	Potash	sagrada	Cod-liver oil
	prussiate	Cassia oil	Cottonseed oil
	Soda sulphide	(c.i.f.)	Cubebs
		Coriander oil	Formaldehyde
		Menthol	Glycerin
		Palm oil	Methyl alcohol
	Steadier	Palm-kernel	Mint oil (Jp.)
		oil	Naphthas,
		Patchouli oil	solvent
	Hexamine	Potash chlorate	Shellac
	Phenazone	Rape oil	Soda caustic
		Soda acetate	Soda chlorate
			Turpentine

Cablegrams

NEW YORK, May 18.—Business is fair. Iodides and bismuth salts are dearer. Resublimed iodine has been advanced to \$4.25 per lb., iodoform to \$5.25, potassium iodide to \$3.30, and sodium iodide to \$3.80. Bismuth subcarbonate is now \$2.45, subgallate \$2.15, and subnitrate \$2.15 per lb.

BERGEN, May 18.—The total catch of cod for the whole of Norway since the opening of the season amounts to 40,300,000, against 36,100,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 68,529 hectolitres, against 53,505 hectolitres for the same period of 1921. The market for finest new non-freezing medicinal oil is nominal at 100s. to 105s. per barrel c.i.f. U.K. ports.

Crude Drugs, etc.

ALOE.—There were no exports from the Union of South Africa during January 1922. Cape since the auction have been selling more freely at rather firmer prices than would have been accepted in public sale, including good bright hard firsts at 27s. 6d. to 30s.; good seconds can be had at 25s. and thirds at 22s. 6d. per cwt.

ANISE STAR is practically unobtainable on spot, and for prompt shipment 63s. c.i.f. is quoted.

ANTIMONY.—The feature has been the big reduction in the price of English refined, which amounts to about £5 per ton. Prices now range from about £25 for 50-ton lots up to about £30 per ton, according to quantity and brand. Foreign refined shows but little alteration, being at £23 c.i.f. and £24 for spot lots. Crude is quite nominal at about £14 10s. per ton c.i.f. for May-June shipment and £14 on the spot.

BALSAMS.—Tolu is offered at 2s. 4½d. to 2s. 6d. per

lb. c.i.f.; on the spot 2s. 9d. to 2s. 10d. is quoted. Lack of demand for Peru is responsible for the easier quotation of 9s. per lb. spot. *Copaiba*.—Sales are reported at 1s. 9d. per lb. for Maracaibo of B.P. quality.

BELLADONNA root is cheaper, with 0.5 test offering at 7½d. per lb.

BUCHU.—The exports from the Union of South Africa during January amounted to 5,056 lb., valued at £741, against nil in 1921.

CADMIUM has been much firmer of late, supplies from the Continent being limited, due to a good demand in Germany. With prices in America also stiffer, quotations on this side have been raised up to about 6s. per lb.

CAMPHOR (CRUDE) is steady, with spot sellers of Chinese at 3s. 3d. per lb., and for May-June shipment 2s. 10d. per lb. c.i.f. is quoted.

CAMPHOR (REFINED) is quiet, with Japanese 2½-lb. slabs offering at 3s. 6d. per lb., and ½-oz. tablets at 4s. 5d.; June-August shipment of slabs is quoted at 3s. 3d. c.i.f., and ½-oz. tablets at 4s. c.i.f. for May shipment.

The exports from Japan during February amounted to 1,746 kin, valued at 363,831 yen. During the two months ended February 28 they were as follows:

To	1920 Piculs	1921 Piculs	1922 Piculs
British India	1,196	112	238
Great Britain	524	149	697
France	67	3	622
United States	475	397	1,940
Australia	—	22	144
Other Countries	115	175	246
Piculs	2,377	858	3,887
Yen	1,322,830	203,718	757,437

CANTHARIDES.—Chinese are unaltered, with spot sellers at 4s. 6d. per lb.

CASCARA SAGRADA is easier, with sellers of good bright thin two- to three-year-old bark at 74s. per cwt.; two-year-old is quoted at 67s. 6d., and last year's at 62s. 6d.

COD-LIVER OIL.—Our Bergen correspondent writes on May 13 that the cod-fishing at Finnmarken continues favourable. The total output of all the cod-fisheries of Norway is now as follows:

	Catch of cod	Steam-refined cod-liver oil (hect.)	Livers for crude oil (hect.)
To May 6, 1922	37,000,000	64,081	12,130
" " 7, 1921	34,400,000	52,256	10,624
" " 8, 1920	31,800,000	48,100	5,100
" " 10, 1919	20,100,000	25,800	3,100
" " 11, 1918	15,900,000	15,400	5,000

The market is quiet and prices are nominal. It is said that small lots have been sold at about 105s. per barrel c.i.f. London for non-freezing, steam-refined quality. In London several agents offer finest Norwegian non-freezing steam-refined medicinal 1922 oil at 100s. per barrel c.i.f. U.K. ports.

COLOCYNTH.—Turkey apple continues scarce at about 2s. per lb., good pale and pulp at 1s. 4d. to 1s. 10d., as to quality.

CUBEBS are cheaper at from £14 to £15 per cwt.

HEN-YOLK is firm, with spot sellers of Chinese (2 per cent. boric acid) at 142s. 6d. per cwt., afloat at 130s., and sellers of April-June shipment at 115s. c.i.f. Dried yolk is offered at 4½d. per lb., spray whole egg is 6½d., and native dried whole is 4d. per lb., all spot. Prime Chinese hen-albumen on spot is dearer at 3s. 3d. to 3s. 4d. per lb., and for June-July shipment 2s. 10½d. per lb. c.i.f. has been paid. Afloat has been sold at 3s.

HONEY continues quiet and easy. Offers include pale Jamaica at up to 60s. and manufacturing qualities down to 27s. 6d. to 30s. per cwt.; white set Cuban is selling up to 65s. and pale set at 40s.

IPECACUANHA is steady, the sales including East Indian at from 6s. 3d. to 6s. 6d. per lb. Matto Grosso is quoted at from 5s. 9d. to 6s. 3d. and Minas at 6s. per lb.

JALAP is firm, with little offered at 1s. 4d. per lb. for good heavy 10 per cent. Vera Cruz.

LIME JUICE is in better demand, with sales of good pale raw in Liverpool at from 3s. 3d. to 3s. 6d. per gallon.

LIQUORICE ROOT.—Natural is in better supply, and a

good root in pressed bales is offered at 30s. per cwt. on the spot.

GLYCERIN.—The British makers, on Friday last, reduced their prices by 12s. 6d. per cwt., and now quote double-distilled chemically pure s.g. 1.260 in 10-cwt. drums at 87s. 6d. per cwt., and 56-lb. tins in cases at 97s. 6d. per cwt. on five-ton contracts. The following is the schedule of prices:

	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 1 ton	1 ton and under 5 tons	5 tons and upwards
Contracts in minimum deliveries of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.	10 cwt.
Tins 14 lb. ... (per cwt. each)	s. d. 115 6	s. d. 113 6	s. d. 112 6	s. d. 111 6	s. d. 110 6	s. d. 109 0	s. d. 107 6
Tins 28 lb. ... (per cwt. each)	110 6	108 6	107 6	106 6	105 6	104 0	102 6
Tins 56 lb. ... (per cwt. each)	105 6	103 6	102 6	101 6	100 6	99 0	97 6
Drums 1 cwt. ... (charged 20/-)	—	96 6	95 6	94 6	93 6	92 0	90 6
Drums 2½ cwt. ... (charged 60/-)	—	—	93 6	92 6	91 6	90 0	88 6
Drums 5 cwt. ... (charged 75/-)	—	—	—	92 0	91 0	89 6	88 0
Drums 10 cwt. ... (charged 100/-)	—	—	—	—	90 6	89 0	87 6

MENTHOL is flat and a trifle easier, with spot sellers at 23s. 6d. per lb. for Kobayashi-Suzuki, and for May-June shipment 21s. c.i.f. is quoted. Arrivals amounting in value to about £8,000 have taken place within the last fortnight.

The exports from Japan during February amounted to 176 piculs, valued at 150,923 yen. During the two months ended February 28 they were as follows:

	1920	1921	1922
Piculs ...	195	294	237
Yen ...	304,729	271,636	199,745

MERCURY.—The market has been dull, although arrivals have continued on the light side. The home trade is exceedingly quiet, but India has been buying a few parcels lately. The Spanish product is held nominally for £11 per bottle, and ready lots of Italian are obtainable at about £10 12s. 6d. to £10 15s. The April imports amounted to 1,221 bottles, against 5,483 bottles for April 1921. The aggregate for four months represents only 5,275 bottles, which compares with 12,124 bottles for the same period last year.

ORANGE PEEL is held for the higher prices of 6d. to 7d. per lb. for good bright thin-cut so-called Maltese strip, and slightly less has been paid for No. 2 quality.

SENEGAL is quiet, with spot sellers at 5s. 3d. per lb.

SHELLAC.—The dullness of trade demand, together with weaker Calcutta cable advices and reduced interest on the part of dealers and speculators, has resulted in substantial concessions in all positions. The market position is somewhat uncertain, while indications point, if anything, to the deliveries being more than counterbalanced by incoming supplies. The outlook otherwise is not essentially changed, and it is suspected that anything like a big fall is unlikely at present. Much depends on the attitude of America as the largest consumer. The spot market for usual standard T.N. Orange is about 10s. lower at 360s.; fine second Orange is 400s.; superfine, 420s. to 440s.; RL1, 435s.; AC cakey, 320s.; and GAL, 290s. The sales for delivery include May at 345s. and August at 347s. 6d. to 345s. per cwt., closing 340s. value.

SOY.—A few original casks are now available at 4s. 6d. per gallon, duty paid.

STARCH PRODUCTS.—Farina is steady, Japanese No. 1 afloat offering at 29s., and sellers of May-June shipment at 28s. 6d. per cwt. c.i.f. Dutch farina on the spot is 32s. per cwt. Sellers of pure English rice starch crystals quote £36 per ton, and Continental at £33. American maize starch powder in bags is 13s. 6d. per cwt. on the spot.

TAMARINDS.—A good business has been done in East Indian, with from 7s. 6d. to 8s. 6d. per cwt. asked.

Antiguas offer at from 12s. 6d. to 15s., duty paid, for good bright.

TURMERIC is dull at from 25s. to 27s. 6d. per cwt. on the spot for good bright Madras finger, and 19s. for Bengal.

WAX, VEGETABLE.—Japanese is slow of sale at 95s. per cwt. on the spot, and to 75s. c.i.f. is quoted.

The exports from Japan during February amounted to 3,808 piculs, valued at 150,399 yen. During the two months ended February 28 they were as follows:

	1920	1921	1922
Piculs ...	2,220	3,136	5,714
Yen ...	123,429	120,827	226,500

Seeds and Spices, etc.

ARROWROOT is quiet, with St. Vincent offering at 3½d. to 4½d. for common to good manufacturing and 6d. to 6½d. for grocery.

CASSIA LIGNEA is quiet, with selected on the spot offering at 47s. 6d. and broken at 35s.

CLOVES are easy, with spot sellers of fair Zanzibar at 1s. 2d. per lb. To arrive, May-June shipment has sellers at 1s. 1d. c.i.f. The London stock of Zanzibar is 10,089 bales, against 5,542 in 1921.

COCONUT (DESICCATED) is steady, with fine and medium Ceylon selling at 42s. 9d. to 45s. per cwt. on the spot; afloat has been sold at 40s. 6d.; May-June at 40s. to 40s. 6d., and June-July shipment at 40s. c.i.f.

CUMIN SEED.—Market still remains bare of stock.

DILL SEED is offered at 35s. per cwt. on the spot.

GINGER.—Jamaica continues very dear, lean rhatoun to medium and bold sound offering at from 180s. to 200s. per cwt.

PEPPER is quiet, with spot sales of fair black Singapore at 3½d. per lb. Lampung is 4½d., Tellicherry 4½d., and Aleppy 4½d. per lb., all spot. To arrive, fair Singapore for May-July has been sold at 3½d. c.i.f., and June-August shipment at 3½d. per lb. c.i.f. d.w. Tellicherry to arrive is 41s. 6d. c.i.f., and Aleppy 40s. c.i.f. White pepper is steady, with sellers at 7½d. for fair Muntok on the spot; April-June and May-July shipment has been sold at 7½d. c.i.f., and June-August at 7½d. c.i.f. White Singapore on the spot is quoted at 7d., and May-July has sellers at 6½d. c.i.f.

Essential Oils

The demand for essential oils is lighter this week. Fair sales of bergamot have been made at cut rates. Star anise is quiet; Ceylon citronella has been in demand, and prices are firmer. Cochin lemongrass is dearer. Sicilian oils are still unsteady, bergamot being weaker. Cassia oil is easier to come forward; Ceylon cinnamon leaf is cheaper. Coriander is also on the easy side. Japanese mint has been reduced for quantity, and patchouli is cheaper owing to small demand. The imports and re-exports of essential oils into and from the United Kingdom for April 1922, compared with the same month in 1921 and 1920, were as follows:

	1920	1921	1922
April Imports in lbs. ...	286,210	108,040	220,076
" " " value ...	£214,408	£28,031	£53,732
" Re-exports in lbs. ...	119,870	70,017	58,228
" " " value ...	£99,633	£35,540	£29,400

ANISE (STAR).—"Red Ship" is steady at 2s. 2d. to 2s. 3d. per lb. spot or c.i.f. to arrive. There are buyers at 2s. 1½d. c.i.f.

BERGAMOT is easier to come forward at from 16s. 6d. to 17s. 6d. per lb. c.i.f. for 37 to 39 l.a. Spot holders quote from 16s. 9d. to 17s. 9d.

CAJUPUT.—Holders quote from 3s. to 3s. 3d. per lb., according to quantity.

CAMPOR.—White essential is unchanged at from 85s. to 90s. per cwt. spot.

The exports from Japan during February amounted to 145 piculs, valued at 3,761 yen. During the two months ended February 28 they were as follows:

	1920	1921	1922
Piculs ...	6,242	1,346	1,057
Yen ...	237,454	21,832	30,422

CANANGA is quoted at 9s. 6d. per lb. for small lots.

CARAWAY.—Dutch, rectified, is steady at 9s. to 9s. 3d. per lb. for spot.

CASSIA.—Spot is steady at 5s. 4½d. per lb. for 80 to 85 c.s. The price for shipment is easier at 4s. 4d. c.i.f.

CEDARWOOD.—American is unchanged at 1s. 6d. to 1s. 7d. per lb. in drums and 1s. 8d. for c.i.f.

CINNAMON.—Ceylon leaf is cheaper at 5½d. to 5¾d. per oz. spot and 4½d. c.i.f. to arrive; the lower spot figure is reported paid. For high-testing oil bids of 8s. per lb. c.i.f. would be submitted.

CITRONELLA.—Ceylon is firmer at 1s. 11½d. per lb. spot, after 1s. 11d. has been paid. For shipment 1s. 8¾d. c.i.f. is quoted, which is slightly easier. Java is quiet at 2s. 11d. spot and 2s. 9d. c.i.f. to arrive.

CLOVE.—Spot is steady at from 8s. 6d. to 8s. 9d. per lb. net for English or imported distillate.

CORIANDE.—Foreign is a shade easier at from 34s. to 35s. per lb. for ½- to 1-cwt. lots.

EUCALYPTUS.—On the spot values are steady at from 1s. 5½d. to 1s. 7d. per lb. for 70 to 75 per cent. cineol and upwards.

GERANIUM.—Some holders are easing their quotations; 22s. 6d. per lb. for Bourbon would buy in one or two directions, but from 23s. to 24s. is more general. For shipment 19s. 6d. c.i.f. is asked. Algerian is 30s. spot.

GINGER.—For small spot lots 26s. per lb. is asked.

GINGERGRASS is seldom mentioned except for small quantities. Spot is nominally 8s. 6d. to 9s. per lb.

LEMON is as last quoted, 3s. 2d. to 3s. 6d. per lb., according to seller and quantity. The c.i.f. price is 3s. 3d.

LEMONGRASS.—Cochin is firmer at 2½d. per oz. spot. For arrival 2½d. to 2¾d. c.i.f. is quoted, according to date of shipment.

LIME.—West Indian is unchanged at from 2s. 3d. to 2s. 6d. per lb. for distilled and 11s. hand-pressed on the spot.

MINT.—Japanese dementholised Kobayashi-Suzuki is cheaper at 5s. to 5s. 1½d. per lb. spot, and 4s. 6d. to 4s. 7d. c.i.f. to arrive.

The exports from Japan during February amounted to 14 piculs, valued at 4,418 yen. During the two months ended February 28 they were as follows:

	1920	1921	1922
Piculs	281	302	87
Yen	178,557	95,732	22,462

NUTMEG.—Spot is about steady at 5s. per lb.

ORANGE.—Sicilian sweet is unchanged at from 13s. to 13s. 6d. per lb. spot. The price for shipment is about 12s. 6d. c.i.f. For West Indian sweet 10s. 6d. is quoted.

PALMAROSA is quiet and unchanged at from 15s. to 15s. 6d. per lb. in original pots.

PATCHOULI is easier for Penang at from 35s. to 37s. 6d. per lb. spot. Mysore is also cheaper at 40s. 6d.

PEPPERMINT.—American tin oil is quiet and unchanged at 9s. to 9s. 6d. per lb. spot.

PETITGRAIN.—Paraguayan is dull and unchanged at 8s. per lb. spot.

ROSEMARY.—Spanish is unchanged at 1s. 11d. to 2s. per lb. spot. French is obtainable at from 3s. 6d. upwards.

SPIKE.—Spanish is in demand at 3s. 7d. per lb. for drum lots, up to 3s. 10½d. being quoted for smaller quantities. French is offered at 5s. 9d. spot.

Aromatic and Synthetic Chemicals, etc.

COUMARIN is obtainable on the spot at from 10s. 6d. to 11s. 6d. per lb., the latter being for good bold crystals. HELIOTROPINE is unchanged at from 6s. 6d. to 7s. 6d. per lb. as to seller. METHYL SALICYLATE is steady at about 2s. 6d. per lb.; for larger lots 2s. 3d. to 2s. 4d. would be accepted. TERPINEOL, French, in cwt. carboys, is offered at 2s. 2d. per lb.; ½-ton lots, 1s. 11d. THYMOL is easier at 19s. 6d. per lb. for cwt. lots, and 18s. 9d. c.i.f. for Indian ex ajowan. VANILLIN is quoted at 37s. and 37s. 3d. per lb.

Pharmaceutical Chemicals, etc.

THE steadier tone recorded in pharmaceutical chemicals of late is well maintained, and this week there is practically no change in quoted prices. Business, although for limited quantities generally, has been fairly good. B.P. chloroform is 2d. lower.

ACETANILIDE is unaltered at about 1s. 3d. to 1s. 4d. per lb., with occasional demand.

AMIDOPYRIN stands at 16s. 9d. to 17s. per lb. on quotation, but orders could be booked for less.

AMMONIUM BENZOATE is still offered on spot at 4s. per lb., with little sign of business.

ASPIRIN holds at the recent better price of about 3s. per lb., with a steady demand.

BARBITONE remains at 9s. 6d. to 10s. 6d. per lb., with very little doing.

BENZOIC ACID is offered at 1s. 6d. per lb., but sales are difficult at that price.

BENZONAPHTHOL is quoted at 6s. per lb., with sellers at less.

BETANAPHTHOL.—Resublimed remains nominal at 2s. 6d. per lb. on a slack market.

BROMIDES.—These salts are one of the bright features of the market. A steady demand has been sustained, and the better prices are well maintained for good quality on spot: Ammonium, 1s.; potassium, crystals and granular, 9½d. to 10½d.; sodium, 9½d. to 10½d. per lb.

CALCIUM LACTATE has recovered a little at 2s. 2d. to 2s. 3d. per lb., but is easy at this figure.

CHLORAL HYDRATE.—Duty paid is offered at 5s. per lb., but actual sales have been made at a shade less.

CHLOROFORM.—The makers intimate a reduction of 2d. per lb. in pure B.P. quality, and now quote 3s. 2d.; 50 lb. and upwards, 3s. 1d.; 2 cwt. and upwards, 3s.; 5 cwt. and upwards, 2s. 11d.; 10 cwt. and upwards, 2s. 10d. per lb. net.

COCAINE.—The French makers have advanced their price of hydrochloride to 19s. per oz., but at the moment spot supplies can be had at slightly less. It is quite anticipated that the above price will become effective shortly.

CREOSOTE B.P. holds at 2s. 9d. to 3s. per lb., but there is only small inquiry.

CREOSOTE CARBONATE is seldom asked for, and is unaltered at about 10s. 3d. per lb.

GUAIACOL CARBONATE remains at 9s. 3d. per lb., with very little doing.

HEXAMINE is much steadier and level on the week at 3s. 6d. per lb., with ewt. lots offering at 3s. 4d.

METHYL SULFONAL remains idle, with offers easy at about 15s. 6d. to 16s. per lb.

PARAFORMALDEHYDE has been very quiet, and there are sellers at about 3s. to 3s. 3d. per lb., as to quantity.

PARALDEHYDE is still dull and weak as quoted at about 1s. 5d. to 1s. 6d. per lb.

PHENACETIN on the spot is offering at 5s. 3d. per lb.; not much demand.

PHENAZONE is a little steadier this week at about 7s. 6d. per lb.

PHENOLPHTHALEIN is maintained at about 3s. 6d. to 3s. 9d. per lb., and some demand has been experienced.

POTASSIUM PERMANGANATE B.P.—Sellers of imported on spot offer at 9½d. to 10d., according to quantity.

RESORCIN remains dull, with quotations unchanged at 7s. 3d. per lb.

SALICYLIC ACID.—B.P. crystals are well held at 1s. 4d. to 1s. 5d. per lb. on spot, with moderate demands.

SALOL stands at about 2s. 3d. per lb. on a slow market.

SODIUM BENZOATE is steady at about 1s. 6d. per lb. for small lots, with limited business passing.

SODIUM DIETHYLBARBITURATE shows no sign of revival, and is nominal at 18s. per lb.

SODIUM SALICYLATE on the spot is perhaps a shade cheaper at—powder, 2s. to 2s. 1d. per lb., crystals, 2s. 2d. to 2s. 3d. per lb.; business has been done on limited lines.

SULFONAL remains neglected, with quotations at about 15s. per lb.

TANNIC ACID.—Levi's is steady but dull at 3s. 9d. per lb.

TARTARIC ACID.—Crystals on spot are said to be scarce, and the prices asked by holders are at about 1s. 3½d. to 1s. 4½d. per lb.; forward prices are below these figures.

TERPENE HYDRATE remains at the lower figure of 2s. per lb., with no sales reported.

PHOTOGRAPHIC CHEMICALS.—The prices quoted a fortnight ago are still being asked, and a fair volume of business has been done. It is not expected that the

present spot stocks can be replaced and sold at the same figures, and therefore slightly higher prices may be expected at no distant date.

Industrial Chemicals, etc.

London, May 17.

REPORTS to hand state that business has been fairly good, although generally for small quantities. Prices are about the same, with one or two exceptions, such as chlorates of soda and potash. Caustic soda on the spot is also a shade easier. Formaldehyde, sodium acetate, and sodium chlorate are cheaper.

ACETIC ACID has been in fair demand, and is a slightly brighter market; prices are at the same level as last reported, but seem firmer: 80 per cent. technical, £41; 80 per cent. pure, £43; 98 per cent. glacial, £60 per ton, in casks and demijohns.

ACETONE.—British Government specification is £70 per ton in drums; small lots are offering on spot, but there is little inquiry.

ALUM still finds a small outlet; Continental is quoted at about £13 per ton.

AMMONIUM MURIATE continues firm at 33s. per cwt., and is selling freely.

ARSENIC.—There has been a sharp advance lately, this being attributed to the shortage of white Cornish powder, the first-hand sellers of which have advanced their limits to about £41 10s. delivered London. There are, however, sellers in second hand at well under this. A few parcels of Grecian are lying at Newcastle, for which about £38 is wanted ex wharf. Imports from the Continent are restricted.

BARYTES is maintained at £4 up to £6 10s. per ton for best white material, for which there is a limited demand.

BLEACHING POWDER (35 to 37 per cent.) is dull and easy at about £13 per ton for imported from Continent. Some parcels of American are cheaper.

COPPER SULPHATE has continued firm, the more general quotation being £28 per ton, less 5 per cent., f.o.b. Liverpool for casks. Lancashire makers in some cases are still sellers at 10s. below the figure mentioned. The export demand is reported quite good, but the near future may possibly see some slackening after the considerable orders placed in the last few months. The April exports were good at 7,691 tons, compared with 5,423 tons for April last year, the total for four months being 23,810 tons, against 20,444 tons and 14,039 tons respectively in the same period of the previous two years.

CREAM OF TARTAR.—The position as stated last week holds. Spot material is limited at about 117s. 6d., and dearer than forward c.i.f. quotations at about 105s. per cwt., less 2½ per cent. for 99 to 100 per cent. powder. There has been quite a fair demand of late.

EPSOM SALT.—Commercial quality is stagnant, with material available at £6 per ton in single bags.

FORMALDEHYDE (40 per cent. volume) is down again this week; spot parcels are offered at £68 per ton, with little request.

GLAUBER'S SALT can be obtained at £4 per ton, carriage paid, for home use, but it is moving very slowly.

LEAD ACETATE has been moving in small lots, with imported at—brown, £34 10s., and white crystals, £39 10s. per ton.

LITHARGE from British makers is dearer, they asking about £36 per ton for pure flake; imported is offered on spot at about £34 per ton.

OXALIC ACID is well maintained and in fair demand at about 8½d. per lb.

POTASSIUM BICHROMATE stands unaltered at 6¼d. per lb.; demand has not improved.

POTASSIUM CHLORATE has, as we predicted, gone a shade lower and is now offered at 4½d. per lb., but it is still quiet in demand.

POTASSIUM PRUSSIAN on spot is more active, and yellow is at the better figure of 1s. 2½d. per lb., with red nominal; none offering.

SAL AMMONIAC holds at unchanged prices, with a continued demand: Dog-tooth crystals, 55s.; medium-sized crystals, 50s.; and fine white crystals, 34s. per cwt.

SALTCAKE is in free supply and small demand; nominal at £5 to £6 per ton f.o.b.

SODA ASH (57 per cent. light alkali) is steadier at last week's reduced price, but the demand is still poor: Spot, London, £9 15s. to £10; Manchester, £8 10s. to £9 per ton; makers are asking £8 7s. 6d. per ton for home trade only.

SODA CAUSTIC has been slow, and spot holders have reduced their prices about 10s. per ton to: 70 to 72 per cent., £23; 76 to 77 per cent., £25 per ton, ex wharf, shipping port. Makers are quoting to home users on contract at: 70 to 72 per cent., £22 10s., and 76 to 77 per cent., £24 10s. per ton.

SODA CRYSTALS from makers for home use are unchanged at £6 per ton, in bags, carriage paid to destination; spot parcels ex store are offered at about the same price.

SODIUM ACETATE is easier on the week and now available at about £24 per ton; there is not much demand.

SODIUM BICARBONATE is unaltered in price, but there seems to be a little livelier demand on the market at about £11 per ton.

SODIUM BICHROMATE is steady at 5¼d. per lb., with nothing like a normal demand.

SODIUM CHLORATE is cheaper, being now offered at 3¼d. per lb., but buyers are still hard to find.

SODIUM HYPOSULPHITE is very steady and unchanged; pea crystals in 1-cwt. kegs are firm at £19 10s. to £20 per ton, with commercial at about £14 per ton.

SODIUM NITRATE stands unaltered and in fair demand at £15 5s. per ton for 96 per cent. refined.

SODIUM PRUSSIAN on the spot has advanced to about 9½d. per lb., and seems firm at that figure. Makers' price has also gone up to about 9¼d. per lb.

SODIUM SULPHIDE is a shade firmer, although the demand has not improved much. 60 to 62 per cent. solid in drums, £21 per ton; 60 to 65 per cent. concentrated in casks, about £22 per ton.

COAL-TAR PRODUCTS, ETC.—Business has been rather slow in these products, and some signs of lower prices are evident. Pitch is not at all firm at the figure quoted. ANILINE OIL and SALT remain nominal and stagnant at 1s. per lb. PITCH has been quiet, but still quoted at 70s. per ton; the market does not appear very steady at this level. Pure METHYL ALCOHOL is now offered at £65 per ton, but very little business has been done. CRESYLIC ACID is maintained at 2s. 2d. per gallon, but the market is still slack, and prices not at all steady. CARBOLIC ACID is steady and in fair demand at 5¾d. per lb. for crystals f.o.b. U.K. port. CREOSOTE OIL is unchanged at 6d. per gallon, barrels free. PYRIDINE has been quieter at the unchanged price of 6s. per gallon. ANTHRACENE (40 per cent.) is steady at 7d. per unit per cwt. NAPHTHALENE is at the same figure of £17 per ton, but the market is unsteady.

Fixed Oils, etc.

LINSEED OIL has again been in brisk demand on spot, but towards the close seemed to be weakening. Other products are about the same on the week, with limited demand only. ACID OILS.—There has been a better demand on spot for coconut and palm kernel at 35s., and some business has been done in pale groundnut, also at 35s. CASTOR OIL continues firm and unchanged, with Hull mills' prices at—pharmaceutical, 57s.; first pressing, 52s.; second pressing, 47s. COCONUT OIL.—Values are about the same level, but business has shown no sign of livening up—deodorised, 49s. 6d.; Ceylon, 41s. 6d.; Cochin, 48s. COTTONSEED OIL.—Values are lower on the week, but close firm on spot at this level—deodorised, 51s.; common edible, 47s.; soapmaking, 45s.; crude, 41s. GROUNDNUT OIL.—The spot market remains slack, with values unaltered—deodorised, 55s.; crude Oriental, 46s. c.i.f. for shipment. LINSEED OIL.—Early in the past week spot values went to a very high level, due to enormous buying for American account. This was caused by the rumour that imports would in the near future be liable to a heavy duty in America. The position is certainly tight, and crushers have thus more inducement in covering themselves in raw material, which has been generally very firm lately, the supplies afloat being only

moderate. Our total exports of vegetable oils, raw and refined, during April amounted to 12,839 tons, against 6,994 tons for April last year. The total for four months represents 39,973 tons, compared with 24,745 tons and 38,217 tons respectively for the same period in the previous two years. Towards the close the market was much quieter and prices had eased off. Raw, naked, on spot, 45s.; May, 43s. 6d.; June, 43s. 9d.; May-August, 42s. 1½d.; September-December, 37s. 9d.; Hull, on spot, 43s. 9d.; May, 43s. 9d.; May-August, 41s. 6d.; September-December, 37s. 3d. PALM-KERNEL OIL.—At slightly lower prices the market closes steady; business has not been quite so brisk—deodorised, 49s.; crude, 41s. PALM OIL.—Quotations are a point down on the week, but the market is now very steady. Hards are scarce on spot. Lagos, 34s.; softs, 33s. 3d.; hards, 31s. 6d. RAPE OIL continues quiet on spot and is slightly cheaper this week—refined, 55s.; crude, 48s. SOAP STOCK GROUNDNUT.—Holders are asking 33s. on spot. SOYA-BEAN OIL.—Values are well maintained, although business has been slow—deodorised, 48s. 6d.; crude Oriental, 39s. TURPENTINE (AMERICAN).—The trend of the market has been in buyers' favour at the moment, and the market closes still rather weak for spot and near position. Distant positions are fairly firm. On spot market closes at 76s. 6d.; May, 76s.; May-June, 72s. 6d.; July-December, 63s. 3d.

LUBRICATING, BURNING, MINERAL OILS, ETC.—Lubricating oils look like firming up, although spot prices are so far unchanged. Solvent naphthas are cheaper again. Other products are about the same. BENZOL remains very quiet at the lower figure of 2s. per gallon f.o.r. makers' works, buyers' packages. BURNING OIL, crude.—Prices are unchanged on the week, but the demand is still poor: No. 3, 8½d.; No. 2, 8d. per gallon, barrels free. FUEL OILS.—No change has taken place, and the market continues slack: 905 to 910 gravity, £5 per ton; 950 gravity, £3 12s. 6d. NAPHTHA has not improved in demand, and values are quoted as at 1s. 11d. per gallon. SOLVENT NAPHTHAS have again gone in buyers' favour, and are now quoted at the lower prices of: 90 to 160, 2s. to 2s. 1d. per gallon. Heavy solvent naphtha, 90 to 190, is down to 2s. 2d. to 2s. 3d. per gallon, drums extra. PARAFFIN WAX and SCALE hold steady but not very active. Wax is quoted at 2½d. to 4½d., according to melting-point. Scale is 1½d. per lb. on spot and 1½d. forward shipment. PETROLEUM OILS.—The position is as last report—a very firm market. American standard white, 1s. 4½d.; water white, 1s. 5d. per gallon. PETROLEUM JELLIES.—Little improvement in demand, and values are unchanged: snow white, £71; white, B.P., £66; white, £54; pale yellow, £32; yellow, £26; red vet., £20; dark stiff green, £18, ex wharf London, barrels free. SPECIAL OIL, for Diesels and motors, is steady at 10d. per gallon, barrels free. WHITE OILS.—Special No. 1 is a shade dearer afloat at £43; No. 1, about £38 10s.; No. 1A, half-white, £36, drums free; No. 2 half-white, £32.

British Chemical Trade Association

IN their last Bulletin, No. 38, the Association hinted that it might be unwise to import any chemicals for stock which were liable to the Key Industries Duty. They now advise members that on no account should they do so, otherwise they may be paying considerable amounts as duty which at no distant date may be lifted. The position is this: the Government have been forced to the conclusion that the Act in its present form is an absolute failure, and are inclined either to repeal or drastically amend it, but there are powerful interests working for its retention as it stands. What eventually happens largely depends on the political situation. Despite the inspired contradictions in a section of the Press, the Association is of opinion that some action is contemplated by the Government, but a decision will not be made until the return of the Prime Minister. The Association have pointed out to the Board of Trade that "R" tannin is still in the Key List, whereas tannic acid has been taken out. The Board has promised to put this right, but in the meantime this product should be imported as "tannic acid" so as to avoid trouble with the Customs. It appears that the Referee's rulings on points of principle in the recent appeal cases have only been applied to those products against which notice of appeal against their inclusion have been lodged, and not to the whole of the Key List. This important matter is being pressed in the House of Commons.

Duty-paid Chemical Imports

THE following table gives the amount of duty paid on the principal imports of chemicals into Great Britain under the Safeguarding of Industries Act during the first six months of its operation (October 1 to March 31):

	£		£
Acetic acid ...	9,314	Naphthalene balls ...	223
Acetic anhydride ...	792	Neodymium oxide ...	27
Aceto-acetic ester ...	146	Nerolin ...	47
Acetylvaleric acid ...	3,415	Nickel sulphate ...	158
Aldehyde (not descr.) ...	37	Nitrobenzene ...	10
Alolin ...	66	Oxalic acid ...	101
Amidol ...	15	Paraformaldehyde ...	125
Ammon. bifluoride ...	11	Paraldehyde ...	635
" ichthysulph. ...	11	Paramidophenol ...	304
" persulphate ...	2,908	Paranitraniline ...	358
" phosphat ...	3,846	Phenacetin ...	160
" sulphocyan. ...	22	Pbenazone ...	37
Amyl alcohol ...	19	Phenolphthalein ...	263
Argyrol ...	932	Phenylacetic aldehyde ...	20
Anabepine ...	13	Phosphoric acid ...	901
Baking-powder ...	7,750	Pilocarpine nitrate ...	105
Barium hydroch. ...	27	Piperazine ...	41
Benzaldehyde ...	145	Piperidin ...	104
Benzoic acid ...	657	Potasb. bicarb. ...	250
Benzyl acetate ...	87	" bisulphide ...	224
" benzoate ...	85	" bitart. ...	17
Beryllium nitrate ...	30	" carbonate ...	452
Beta-naphthol ...	285	" chlorate ...	76
Bismuth oxide ...	44	" cyanide ...	79
Bromate, potash ...	141	" ferriyanide ...	507
Bromide, ammon. ...	104	" hydroxide ...	70
Bromide, potash ...	669	" iodide ...	55
Brominal ...	77	" nitrate ...	76
Bromine ...	47	" nitrite ...	23
Butyric acid ...	232	" oxalate ...	215
Cadmium sulphide ...	46	" permangan. ...	267
Caffeine ...	91	" sulphate ...	69
Calcium chloride ...	49	" sulphide ...	21
" lactate ...	87	" sulphite ...	37
" permanganate ...	217	Propyl alcohol ...	91
Camphor, synthetic ...	63	Pyrogallie acid ...	2,394
Capsaicin ...	27	Pyrophosphoric acid ...	43
Carbon tetrachlor. ...	3,509	Quinine salts ...	66
Casein ...	907	Raffinose ...	50
Cellulose acetate ...	60	Resorcin ...	81
Chinosol ...	115	Rhodinol ...	118
Chloralamide ...	16	Rouge ...	34
Chromic acid ...	15	Safrol... ..	466
Chromium oxide ...	130	Salicin ...	146
Cinchona alk. ...	23	Salicylic acid ...	1,539
Cinnamic aldehyde ...	68	Sebacic acid ...	36
Cobalt chloride ...	38	Selenium oxychlor. ...	4
Cocaine and salts ...	517	Soda benzoate ...	1,044
(also 250 oz.) ...		" bicarb. ...	227
Copper suboxide ...	394	" borate ...	145
Coumarin ...	849	" fluoride ...	44
Cream of tartar ...	2,441	" formate ...	65
Eucaïne hyd. ...	29	" glycerophosph. ...	68
Ferrum redact. ...	32	" hydroxide ...	40
Formaldehyde ...	2,759	" byposulphite ...	755
Formic acid ...	43	" oxalate ...	9
Guaiacol ...	23	" oxide ...	121
Hæmoglobin ...	2	" perborate ...	1,144
Hexamine ...	1,688	" phosphate ...	5,710
Hydrastin hyd. ...	134	" pyrophosphate ...	35
Hydrocyanic acid ...	14	" salicyl... ..	1,350
Hydrogen peroxide ...	288	" silicon fluoride ...	33
Hydroquinone ...	1,072	Strontium carbonate ...	129
Hydrosulphite ...	48	" chlorate... ..	93
Iodol ...	61	" hydroxide ...	47
Iron oxalate ...	8	Sulphocyanide ...	32
Iso-eugenol ...	101	Sulphonal ...	226
Lactic acid ...	137	Tannic acid ...	392
Linalyl acet. ...	81	Tartaric acid ...	1,559
Lithia carb. ...	984	Terpene hydrate ...	70
Magnes. carb. ...	221	Terpineol ...	25
" chloride ...	70	Terpinyl acetate ...	89
Maltose ...	33	Thymol ...	27
Manganese borate ...	26	Tin oxide ...	17
" oxalate ...	83	Titanium potass. oxal. ...	56
Mannite ...	39	Trichlorethylene ...	25
Mercury oxide ...	623	Tungsten powder ...	190
" perchloride ...	809	Uranium nitrate ...	63
Methyl chloride ...	59	" oxide ...	38
" glyoxalate ...	141	Urea ...	200
Methyl ethyl ketone ...	182	Validol ...	7
Methyl salicyl. ...	634	Vanillin ...	4,276
Metol ...	19	Chemicals (described as ...	11,047
Milk sugar ...	10,041	drugs and other sorts ...	1,466
Molybdaic acid ...	25	Perfumery chemicals ...	1,197
Musk xylol ...	34	Photographie ...	1,513
		Proprietary ...	



"Playing the Game"

SIR.—I have read carefully Mr. Skinner's reply to my inquiry regarding the justification he had for making the statement that the Union had not played the game. I am surprised that he should, when addressing public meetings of pharmacists, refer to his personal business affairs as though they were of public interest and justified such a statement. It may be that Mr. Skinner's disappointment at not selling his list to the Union has biased his views, for his letter is most misleading. The occasion of the interview, it is true, was the fact that a committee of the Union at that time was engaged in the preparation of a dispensing price list, coupled with the announcement of the *C. & D.* that they proposed to publish a list, a step which was bound to have an important bearing on the work of that committee. Naturally it occurred to me that the multiplication of price lists was undesirable from every point of view. In view of the attitude of the *C. & D.* in relation to our insurance work, it was out of the question that the *C. & D.*'s proposed list and that to be prepared by the Union could be amalgamated. I knew of no such impediment in the way of the Union adopting Mr. Skinner's "London Chemists' Costing System," provided terms mutually acceptable could be agreed upon. So far Mr. Skinner does not blame me. What subsequently transpired was that the Executive decided to adopt the B. & C. P. list, leaving them free to make any future arrangements for such a continuation of the features of both lists, and the discontinuance of the publication of Mr. Skinner's list as might, in the light of future developments, be deemed advisable and possible. I did not tell Mr. Skinner that his list was the best. In this, as in most cases, it was the prospective vendor and not the would-be purchaser who expressed that opinion. The copyright question is one of law, but the using of any distinctive and novel feature of another person's production would, without recompense, at least be an ethical offence, which the Union has not committed, nor has any intention of committing. The prospective terms as quoted by the agent of the London Chemists' Costing System, to whom Mr. Skinner referred me, were not such as in the opinion of my Executive justified the postponement of the conclusion of their arrangement with the B. & C. P. In coming to this decision, Mr. Skinner may think the Executive made a bad bargain, or that they were not so friendly disposed to Mr. Skinner as to lead them to accept terms which, as business men, they were right in rejecting on their merits. But Mr. Skinner has quite failed to make good his public statement that we had not "played the game." We played our game; he played his; and, so far as I know, neither side broke any rules. As to which won, the future must decide. It may be that in fulfilling my duty conserving the interests of the Union and its members, I have not pleased Mr. Skinner. I cannot prevent his taking any view of the matter he likes, but I sincerely regret the attitude he has adopted in this case, as I think it is unworthy of him.—Yours faithfully,

G. A. MALLINSON.

The Retail Pharmacists' Union. Secretary.

War Auxiliary Benevolent Fund

SIR.—The views of the East Anglian Federation, expressed through Mr. J. C. Wiggin, as to the administration, or lack of administration, of the War Auxiliary Benevolent Fund are perfectly sound. If there be those in need of it the money should be disbursed, as the subscribers intended; if not, common decency demands that a percentage return of the money should be made to those who "put it up." Taking the latter alternative as an apparently accepted fact, I maintain that the W.A.B.F. Committee has no moral right to hold the moneys. Of

my thoughts as an ex-association secretary who collected a county area's quota I will remain silent, but as a subscriber few words will suffice: "If the money is not required for the purpose for which it was willingly subscribed—and for no other—please return it."

Yours, etc.,

H. J. SADLER.

Crawley.

Crystalline Glycerin

SIR.—I was interested in the letter from Mr. Collins for this reason. About March 1895 I was chief dispenser to the late John Green at Deal, and our stock of glycerin crystallised. I had never heard of such a thing (only just qualified), and Mr. Green, although he had been over fifty years in business, had no recollection of it having occurred before. We attributed it to the cold weather, and warming the glycerin put matters right.

Yours faithfully,

W. ADAMSON.

Southall.

SIR.—The experience of Mr. A. Collins with solidified glycerin may be uncommon; but I have also come across the same "phenomenon." I have seen drums left in the open during cold weather with the glycerin frozen to a solid mass. This has happened when the drums were less than half full. Unopened drums were unaffected. Upon the removal of the drums to a warmer atmosphere the glycerin gradually reassumed its normal liquid condition.

Yours truly,

R. H. LANGTON.

Newbury.

SIR.—Seeing the letter of Mr. A. Collins in the *C. & D.*, I should like to bring to notice a similar experience which I had recently. I received a drum of glycerin B.P. direct from the makers, and on opening it the day following delivery, was surprised to find that practically the whole of the contents had crystallised. I took out some of the crystals, and found that they liquefied with the heat of the hand, but on tasting observed that the "warm sensation" was not as pronounced as usual. I immediately informed the manufacturers of my discovery, stating that the glycerin did not respond to the B.P. requirements. Their reply was practically the same as that received by Mr. Collins, and at their request the glycerin was returned. I have had several years of experience in manufacturing pharmacy, but have never before found glycerin in this solid state, which for the moment we must regard as a phenomenon.

Yours faithfully,

F. BUCKLEY.

Bradford.

[The interesting phenomenon referred to by our correspondents is reported from time to time. The first observations seem to be in 1866. In the *C. & D.*, March 30, 1895, several cases were mentioned, and again in 1900 and 1903.—EDITOR.]

Labelling Dispensed Liniments

SIR.—In reply to Mr. H. Corbett Meyrick's inquiry (*C. & D.*, May 13, p. 71) as to the views of dispensers on the subject of labelling belladonna liniment with the word "Poison" when ordered on a prescription, I concur fully with Mr. Meyrick that no dispensed medicine should be labelled "Poison" unless the prescriber indicates it on the script. My ground for saying so is based on twenty-five years' experience in many and varied businesses, from the highest-class pharmacy, where titled customers were the rule, to the humble suburban Insurance dispensing work, and also including some years on the Continent. In no single instance have I ever been in a pharmacy where medicaments were labelled "Poison" without the physician's instructions to do so, the general rule being to send out liniments, lotions, etc., in blue or green bottles labelled in red "Not to be taken," or "For external use only," and such things as gargles, mouth-washes which are semi-internal, when containing carbolic acid or other poisonous ingredient, have been dispensed in plain bottles, but with similar red labels "Not to be taken." Abroad we used to follow the same rule, the labels reading "Per uso esterno," and I have always considered this to be the understood practice. I wonder what the same coroner would have said if the fatality had occurred through the misuse of a medicine intended for internal administration?—for example, Easton's syrup tablets, or liquor

arsenicalis, prescribed *per se* for drop doses, as, to follow out his line of thought consistently, half the bottles we dispense would go out with the word "Poison" emblazoned on them. As an instance of this attitude in some quarters, I have been told by candidates for the Dispensers' examination at the Apothecaries' Hall that they have been pulled up for not affixing "Poison" labels in such cases; I have had no personal experience of this examination, but I should certainly not have labelled any of my work in the Minor "Poison" without instructions to that effect on the paper. To the best of my recollection the only item which I had at Galen Place to need such labelling was a belladonna plaster; needless to say, it was not labelled "Poison," but I managed to scrape through all the same.—Yours faithfully,

CHARLES HAMUS.

The Worcestershire Protest

SIR,—The communication which a Worcestershire chemist sent to his Insurance Committee (*C. & D.*, May 13, p. 51) as a protest against the reduction of the dispensing-fee was certainly fitting and expressive. No one can gainsay the truth of his statements, but I very much doubt if this sort of protest will "cut any ice." On the contrary, although I do not mean to infer that we should soft-soap the officials, there is nothing gained by irritating them; it is more likely to render them vindictive. There is no doubt that the authorities are quite as well aware as we are of the pitiful nature of the remuneration the dispensing-fees afford a highly skilled worker, with the responsibilities entailed by the work; but they will never give us any credit for this, or translate it into terms of hard cash until we are so organised that we can cause considerable trouble if we are not treated in a reasonable manner. To take the simile of the brick-layer, if his union object to his conditions of pay or labour they promptly order a strike, and if this is not effectual they proceed to involve any and every other union that they can persuade to hold a sympathetic strike, until the whole industry and possibly several others are brought to a standstill; the result is that they are listened to with attention, and every effort is made to conciliate them. When it comes to the pharmacists the attitude is quite different. The Ministry lays down its terms, without reference to us, and knows we shall accept them, however much we may grumble; grumbling neither interests nor worries the powers *in esse*. If we are to do any better for ourselves it is high time to forget all the eyewash about professionalism and gentility, and take a leaf from the book of the manual worker, who would scorn both our hours and pay.

Yours truly,

SUBURBAN CHEMIST (16/5).

The Council Election

SIR,—May I, through *THE CHEMIST AND DRUGGIST*, thank the electors for their renewal of confidence?

HERBERT SKINNER.

16 Priory Gardens, London, N. 6.

Legal Queries

T. B. (10/5) asks whether his assistant, whose salary is £5 15s. per week, must be insured under the Unemployment Insurance scheme. [As the assistant's remuneration exceeds £250 a year, and he is not employed by way of manual labour, he is exempt from liability to insurance.]

Dental (10/5) wishes to produce in Court an unstamped letter which embodies the terms of a tenancy agreement. The letter was written over a year ago, and "Dental" asks if it is too late to stamp it. [The penalty payable upon stamping a document after the permitted period has elapsed is £10. If, however, the omission to stamp the letter was due to an oversight or some other reasonable cause it is possible that the Commissioners of Inland Revenue at Somerset House might allow "Dental" to stamp the document upon payment of a reduced penalty.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

C. B. J. (10/11).—TEXTILE WORKERS' COLLODION PAINT.—This, we find, consists of a viscid yellowish liquid smelling strongly of amyl acetate; it contains a small proportion of camphor and probably a little oil. The collodion constituent is a form of cellulose nitrate of a kind giving a horny, gelatin-like residue on evaporation of the paint.

M. G. (28/4).—DISINFECTANT CO-EFFICIENCY TEST.—The Rideal-Walker standardisation test for disinfectants is explained in "Approved Technique of the Rideal-Walker Test" (1s., H. K. Lewis), in Rideal's "Chemical Disinfection and Sterilisation" (2ls., Arnold), and in an Appendix to "Pharmaceutical Formulas."

P. H. G. (25/2).—POULTRY TABLETS.—Iron oxide appears to be the chief constituent of these tablets, together with considerable quantities of potassium nitrate, calcium carbonate, and sodium sulphate. A small quantity of capsicum is also present.

W. & S. (4/4).—(1) HAIR LOTION.—Your sample contains alcohol as its chief ingredient, and has a sp. gr. of 0.8367. The proportion not volatile at 100° C. amounts to 14.27 grams per 100 c.c. and consists of castor oil. The ash is negligible (0.33 gram per 100 c.c.). Its perfume appears to be essence of white rose, of which it contains a fairly large proportion. The colouring is probably an aniline dye. (2) HONEY AND FLOWERS.—The following formula is one that has given satisfaction, but the price is now prohibitive owing to the high duty on spirit:

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Almond oil	3vj.
Bergamot oil,			
Lemon oil	aa. mxx.
Clove oil.			
Lavender oil	aa. miv.
Essence of violets	5j.
Rectified spirit (64 o.p.) to			3x.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," May 15, 1872

Pharmaceutical Society's Dinner

Less than a fortnight ago an idea occurred to some brilliant pharmaceutical brain that the congregation of so many pharmacists in the Metropolis immediately before the annual meeting of the Society would be a capital opportunity for the enjoyment of a few social hours in each other's company. With a heartiness which was worthy of the occasion, the notion was quickly moulded into shape and presented to the entire body. Like the beacon fires in Macaulay's famous ballad this idea flew from north to south and from east to west, and roused the gallant squires of the pestle, if we may still continue our simile, "in many an ancient hall." The consequence was that last evening rather more than two hundred pharmacists invaded the lovely grounds of the Sydenham Palace, passed heedlessly by the treasures of art, the attractions of nature, and the extinct animals which spread out their temptations before them, and assembled in the spacious and handsome saloon, where hundreds of other extinct animals tremblingly awaited their approach. Poor animals; they soon became more extinct than ever, and when they and their glory had departed, the business of the reporters began. . . . Dr. Headlam Greenhow proposed the toast of the "Pharmaceutical Society of Great Britain." He testified to the excellent judgment and taste with which that Society fulfilled its duties, "almost as perfectly," he said, "as it was possible that any society could fulfil them." And he looked for a great future for the Society, for as the principle of division of labour extended he was sure the art of prescribing medicines must become more separate from the art of preparing them. Mr. Mackay replied. . . . Dr. De Vrij, of The Hague, proposed "The British Pharmaceutical Conference" in complimentary terms, and Mr. Brady, the President, replied.

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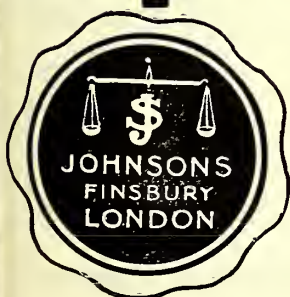
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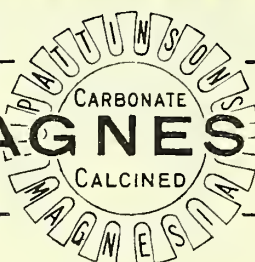
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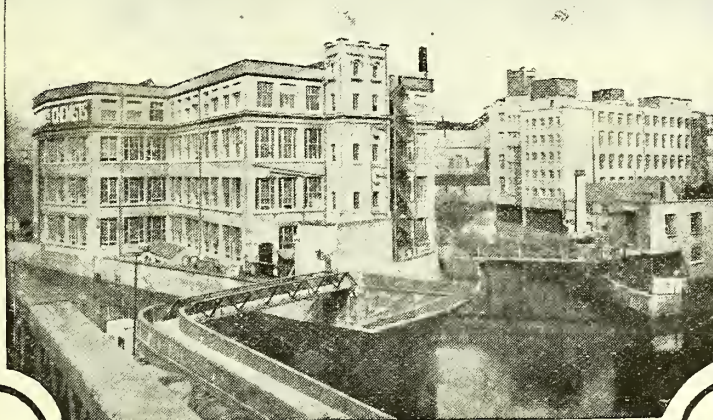
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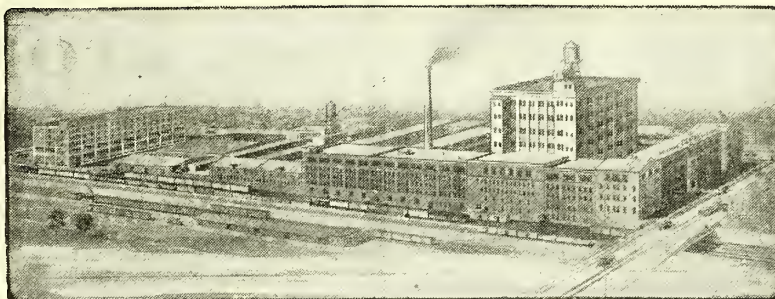
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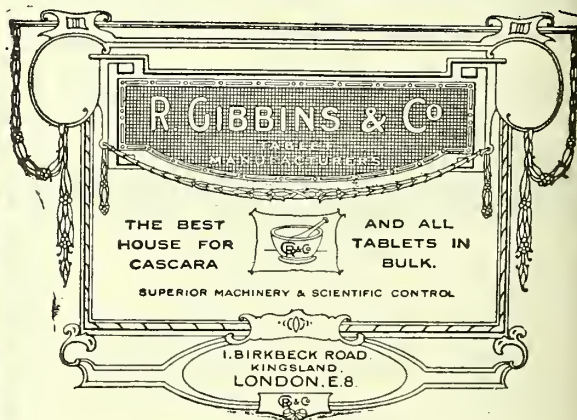
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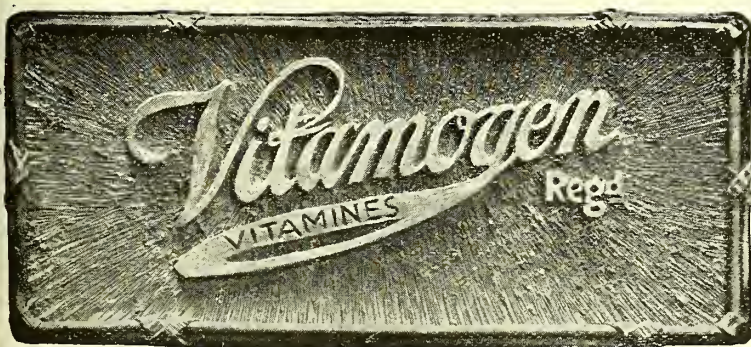
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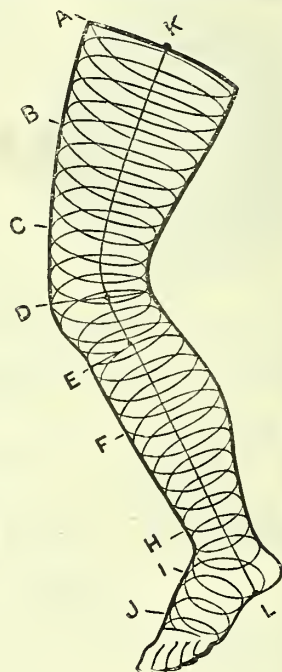
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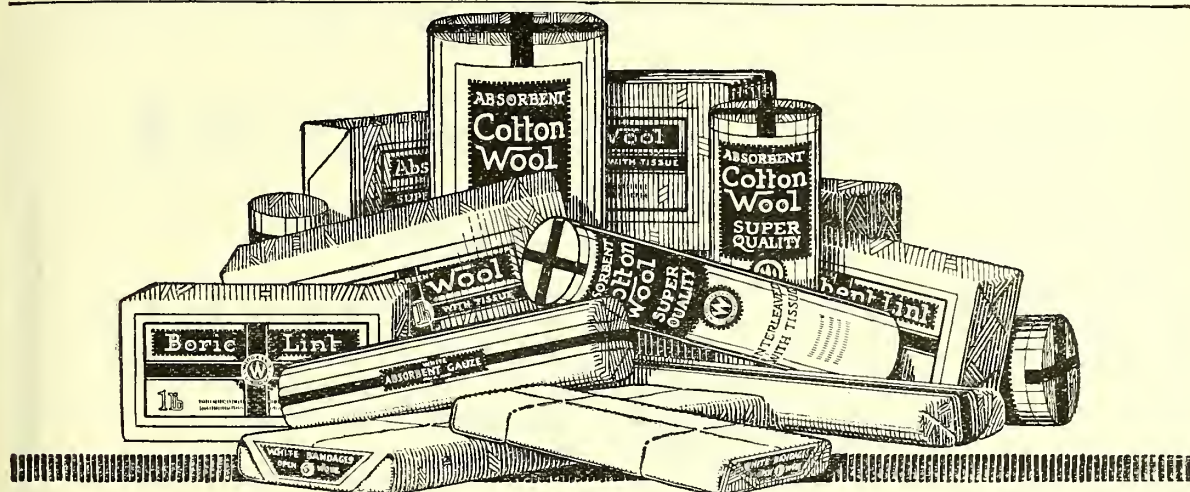
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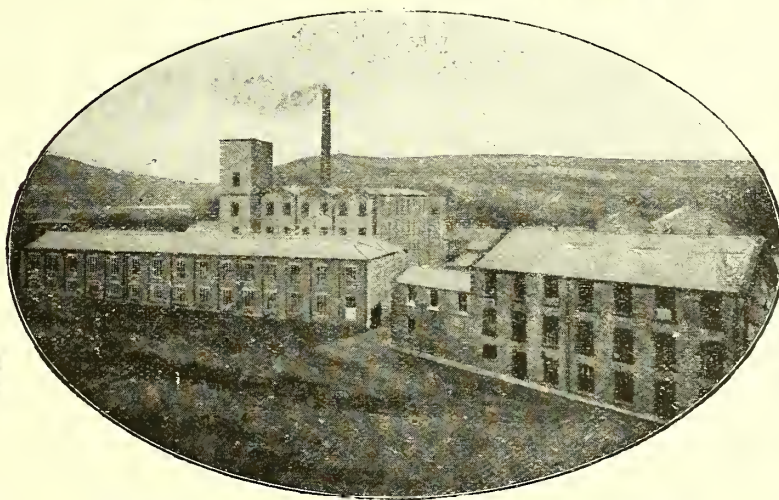
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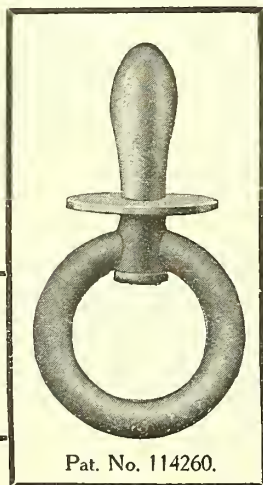


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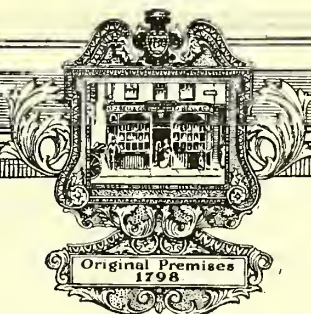
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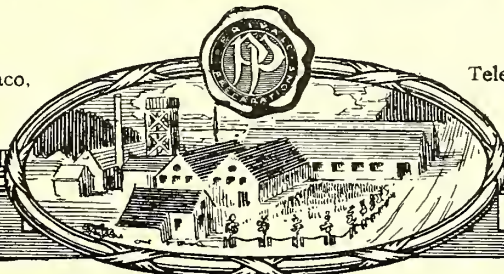
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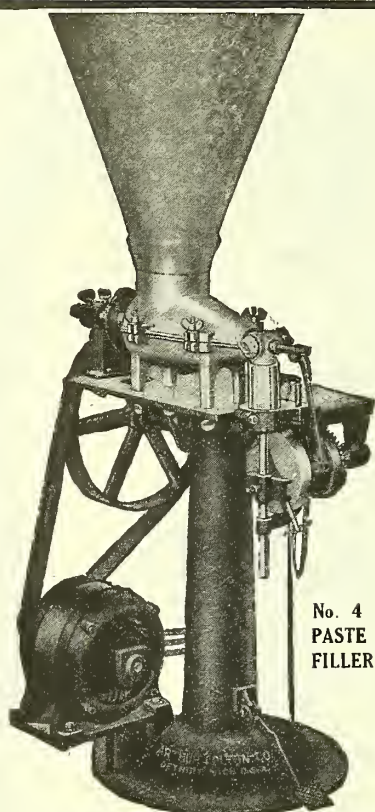
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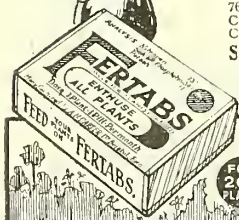
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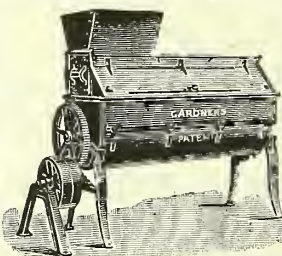
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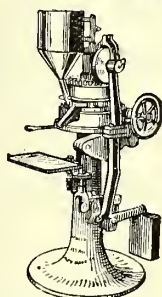
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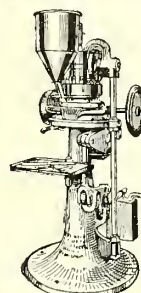
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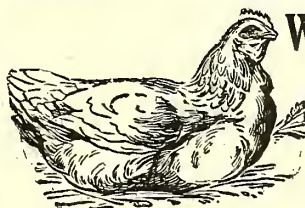
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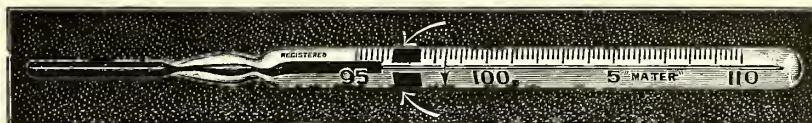
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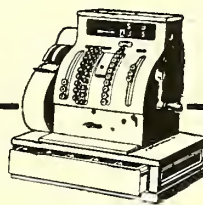
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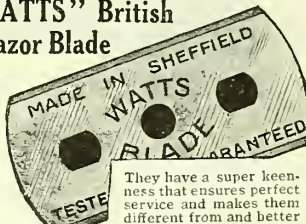
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We wish to inform the trade that the word "KOH-I-NOOR" as applied to Tooth Brushes is our registered property, and that the above is a direct infringement of our rights.

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Anybody having purchased Tooth Brushes stamped "Koh-i-Noor" but marked otherwise than as mentioned hereunder, is requested to communicate with the Proprietors of the "KOH-I-NOOR" Brushes through the medium of *The Chemist & Druggist*.

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All Genuine "Koh-i-Noor" Tooth Brushes

bear one of the following numbers:

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

MAY 20, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements

ended for the Supplement must be sent to us not later than the **FIRST POST THURSDAY MORNING.**

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LONDON, W.—Ready-money Business; lock-up shop; recently established; opening to do £40 weekly; price to include stock, fixtures, lease, etc.; about £800.

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LONDON, N.—Ready-money Business; returns, under management, £50 weekly, with scope for increase; net profit 25%; rent moderate; held on lease; terms, valuation of stock and fixtures and sum for goodwill.

SOUTH INDIA.—Well-appointed Pharmacy, trading chiefly with English residents; returns last year Rs. 23,386; premises comprise magnificent building of two storeys, furnished throughout; all further information will be furnished on application.

8.—KENT.—Good-class Retail and Dispensing Business; returns between £5,000 and £5,500 per annum; modern, well-fitted Pharmacy, fully stocked; further details on receipt of bankers' reference.

9.—SOUTH WALES.—Old-established Business, including Wines and Spirits; held by vendor over 50 years, now retiring; returns average £3,634 per annum for the past three years; gross profit estimated at 25%; commodious premises, with large garden and warehouse; rent 40s. weekly; lease about 17 years unexpired; no opposition; price £2,500.

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11.—LIVERPOOL.—Cash Retail and Dispensing Business; established many years; returns £1,050; net profit over 25%; single-fronted shop; rent £50; lease can be obtained; price £600.

12.—YORKSHIRE.—Ready-money Drug Store, in good-class neighbourhood; returns about £100 monthly; scope for development under qualified management; well-fitted shop, fully stocked; rent £40; no reasonable offer refused.

13.—SCOTLAND.—Wholesale Business, established upwards of a century; a number of Proprietaries are included, which are stocked by most Chemists; returns between £4,000 and £5,000; terms stock and plant at valuation, and sum for goodwill to be arranged.

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FOR Sale, 15 dozen packets Double Cyanide Gauze, in 6 yd. packets; 10 dozen packets plain unmedicated Gauze, in 6 yd. packets; 65 lb. Boric Cotton Wool, in 1 lb. packets; 21 lb. unbleached Cotton Wool, in 1 lb. packets; 14 × 1 lb. Cyanide Wool, 3 per cent.; overstocked; any reasonable offer accepted for all or part. Apply 224/4, Office of this Paper.

TILL ROLLS.—250 gross overstocked, for every make of Tills; cheapest in the trade; from 2s. 3d. doz. Write "Till Rolls Co.," 228 High Road, Lee, S.E.

7 LB. each, Pot. Iodide, 14s. 9d.; Bism. Carb., 11s. 3d.; Iodoform, 19s. 6d.; Iodine Resub., 17s. 6d.; Sodii Salicyl. Pulv., 2s. 9d.; Quinine Sulph., 25 oz., 2s. 7d.; Santonin (white), 39s. 9d.; Quinine Hcl., 12 oz., 3s. 6d.; Salicine, 19s. 6d.; Metol, 16s. 9d.; Equisine, 65s. 1b.; Of. Cinnam. B.P., 45s. 1b.; Amidol, 13s. 6d. 1b.; carriage paid on £3. Write 225/39, Office of this Paper.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

MALTA.—Star Wholesale Agency, 30 Strada Reale, Valletta, requires agencies for Patents, Drugs, etc., on commission basis or carrying stock on account; live wire service offered; note name and address.

SCOTLAND AND NORTHERN COUNTIES.—Agent wanted for the sale of packed goods, Toilet and Medicinal, on commission basis; only gentlemen selling good-class non-competing lines entertained. Replies, in confidence, giving full particulars of experience, present agencies, and ground covered, to Manager, Lorimer-Marshall, Ltd., 12 Tower Hill, London, E.C. 3.

ADVERTISERS require Agents in London and provinces for the sale of their waterproof sundry goods, on commission only; replies treated in strict confidence. Apply 6/175, Office of this Paper.

AGENTS required for leading lines in French Perfumery; first-class Paris goods; sole agency given for each town of at least 10,000 population; advertising in the Agent's name; stock sent on consignment; on commission basis. Send full particulars of connection and trade experience to "M. E. B." (6/171), Office of this Paper.

CHEMIST, with motor-car, willing to take up Agency for the county of Somerset, calling upon Chemists with samples. "Fides" (226/33), Office of this Paper.

MANUFACTURERS of Drugs, Chemicals, Druggists' Sundries, DESIRING REPRESENTATION IN AUSTRALIA, are requested to communicate with SIGMA CO., Ltd., which is a Chemists' Company with active Shareholders in every Australian State, and is in a particularly advantageous position to secure business.

Address "The Manager," Sigma Co., Ltd., 487-489 Flinders Lane, Melbourne, Victoria, Australia.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Unqualified, used to N.H.I. Dispensing, and with a thorough knowledge of Kodak trade, including Developing, Printing, and Enlarging; for a few months. State age, height, and salary to "Kodak," (228/25), Office of this Paper.

BOLTON, LANCs.—Qualified Assistant required with Photographic experience and used to quick Store trade; 48 hours week. Applications, stating full particulars, and enclosing copies of references (no photos), to be sent to "Chemist," Bolton Co-operative Society, Ltd. 39-41 Market Street, Bolton.

BRADFORD.—Qualified Assistant immediately; used to small Retail and National Health Insurance Dispensing; comfortable berth to conscientious man; state age, salary (moderate) and references. Application not answered within seven days declined. Apply "Aspirin," (230/14) Office of this Paper.

CARDIFF.—Unqualified experienced Assistant required early June; aged 30-40; Photographic knowledge essential; only reliable man with undeniable references seeking permanency considered; married preferred; state wages. Apply 229/26, Office of this Paper.

LINCOLNSHIRE.—Wanted (at once), qualified Chemist; country business; state age, salary, experience; single; live in as family. Apply 225/12, Office of this Paper.

LONDON.—Minor lady required for Counter and N.H.I.; give usual particulars, details of dispensing experience, state age, when disengaged, and salary required; non-resident, lodgings available near. Apply 228/24, Office of this Paper.

LONDON Suburb.—Elderly, qualified for light duties; preference given to one who would take up £200 in shares; state salary required; qualified lady would be considered. P.C.B. 29/27, Office of this Paper.

LONDON, S.W.—Wanted, Assistant, unqualified (lady or gentleman), preferably with good Photographic knowledge; tactful Counterman and reliable Dispenser; must be energetic, capable, and thoroughly experienced. Apply, with full particulars and salary required, to 228/34, Office of this Paper.

NORTH WALES.—Lady Assistant; one finished Appren., or one more experienced; good wages. State age and experience to "Chemicus" (226/35), Office of this Paper.

SOUTH WALES.—Young qualified Assistant; capable Dispenser accustomed to quick Counter trade; good references essential; give full particulars of age, height, experience, salary, etc. in first letter. Henderson, Chemist, Llanelly.

WEST London Hospital, Hammersmith Road, W. 6.—Assistant Dispenser required, from June 3, for four weeks, and from August 3rd, for five weeks; must be accustomed to Hospital Dispensing. Apply, stating age, experience, salary required, and enclosing references, to the Pharmacist.

A COMFORTABLE home offered to young qualified Chemist; good Photographic experience essential; from middle of July till end of September, or longer if necessary; state salary required, references, etc. Bayley, Chemist, Herne Bay.

A QUALIFIED Assistant; capable of Management; varied experience essential; Continental; with knowledge of a foreign language would prove useful. Apply 228/26, Office of this Paper.

ASSISTANT for season; about 25; good Salesman and Dispenser. Harkness, Chemist, Margate.

ASSISTANT wanted at once in high-class Dispensing Business; must have had thorough and first-class Dispensing experience and be of good address and appearance; please give full particulars in first letter to Davies & John, Bath.

ASSISTANT (unqualified) for London suburb, of good address not over 35; tactful Counterman, reliable Dispenser; must have a knowledge of Photography and experience in Window dressing. Apply, stating full particulars and salary required, to Parke's Drug Stores, Ltd., 65 Harwood Street, Kentish Town, N.W. For the convenience of provincial applicants Sunday interviews would be arranged.

CAPABLE and reliable Assistant, excellent Prescriber, etc. good Salesman; 18 years' experience; tall, gentlemanly, recommended; permanency or locum. Apply 229/9, Office of this Paper.

CAPABLE Junior for season; one accustomed to good-class Retail Dispensing, and Photographic business; must be a new worker; state age, height, experience, references, salary (outdoors), and enclose a photograph (which will be returned), Cadman, Chemist, Sheringham, Norfolk.

ELDERLY, qualified, for N.H.I. and protection, wanted, indoors; comfortable berth; S.E. district. Please apply stating salary required, which must be moderate, to 228/3, Office of this Paper.

F. M. RIMMINGTON & SON, LTD., Bridge Street, Bradford require a qualified Assistant for Counter; must be experienced and used to high-class business. Apply, giving full particulars of experience, age, and salary required.

HOLIDAY RELIEF.—Qualified Assistant wanted for the weeks, to commence May 29th, for brisk cash business a N.H.I. Dispensing; must have undeniable references. Apply Johns, Chemist, Tilbury Dock.

JUNIOR Assistant of good address; tall and good Counterman; undeniable references; please state age, height, salary required, experience, and when disengaged. Smith, Chemist, Cicester.

JUNIOR Assistant wanted, unqualified, indoors, for Country business; easy hours and good home; good knowledge Photography essential. Apply, stating age, experience, and salary required, to Christopher, Chemist, Much Wenlock, Salop.

LEWIS & BURROWS have vacancies for competent Assistants with good experience; outdoors. Apply Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

LOCUM, experienced Dispenser, qualification not essential, wanted June 19th to July 1st, but preferably from 13th June to July 1st. State age, experience, and salary required to W. Parry-Jones & Co., Barnet.

LOCUM, qualified, for one month, commencing June 19th possible; outdoors; no Sunday duty; send full particulars as to salary, etc., or call personally. Fynn, 53 St. Helier Gardens, North Kensington, W. 10. Applications not answered in 3 days courteously declined.

MALE Assistant for May 29; unqualified; age 23 to 26; good appearance; accustomed to high-class Dispensing and Retail Counter; good references absolutely necessary. W. Mah & Co., 205 Brompton Road, S.W. 3.

RETURNING PHOTOS, ETC.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

MANAGER required for London suburb; age 26-40; good prospects for a keen and tactful Salesman, with knowledge of Photography and Window-dressing. Apply, stating full particulars and salary required, to Clarke's Drug Stores, Ltd., 65 Fleet Street, Kentish Town, N.W. For the convenience of all applicants Sunday interviews would be arranged.

RELIEVED—Part-time relief man, under 30, wanted for a few weeks, with possible full-time permanency later. S.W. must be used to quick cash business and Photographic; age, height, experience, and time available. Apply 228/7, Office of this Paper.

RELIEVED Assistant; reliable; all-round; progressive; capable of taking sole charge Country Business; interest given if terms, references, and photo to Sharp, Calne, Wilts.

REQUIRED, two qualified ladies; one now, one August; Retail; London. Apply 226/36, Office of this Paper.

REQUIRED, at once, a qualified lady (M.P.S.) for Counter and Dispensing; easy hours; London district; permanency. Full particulars, salary, etc., to 229/3, Office of this Paper.

REQUIRED, by a firm of chemists in London, a young qualified Assistant accustomed to a good-class business and able to write. Write full particulars, stating salary required, to Office of this Paper.

ICAL Instrument Business in the Provinces, general Assistant, used to meeting doctors preferred; must know his good character indispensable. Address, stating duties needed to, age, and wages expected, 227/39, Office of this Paper.

OR'S DRUG CO., LD., Chemists, Leeds, require the services of a qualified man, about 25-30, for holiday relief; unqualified Junior; knowledge of Photography essential cases, permanency to suitable men. Apply District Office, Taylor's, Chemists, 16 Boar Lane, Leeds.

THOMPSON & CAPPER, LTD., have vacancies for temporary qualified Assistants, with experience of the Photographic, in Liverpool, Manchester, and Southport. Applications, photograph, if possible, giving particulars of experience, and salary required, to Thompson & Capper, Ltd., Manesty Works, College Lane, Liverpool.

QUALIFIED Junior required at once; about 22; must be smart Salesman and reliable Dispenser. Apply, stating age, experience, and salary required to executors of D. T. Chemist, Mexborough, near Rotherham.

QUALIFIED Assistant wanted at once; must be accustomed to good-class business and a thoroughly reliable Dispenser; hours; near town; full particulars, including age, salary, etc. (if possible) in first letter. Hall, Chemist, Pinner, Mx.

QUALIFIED Assistant; must have thorough knowledge of Photography; able to print essential; state salary, with Denton, Ilkley.

TED, a qualified working Manager for branch, near Manchester; one accustomed to quick Retail business and N.H.I. ing; state age, experience, and salary required; please photograph if possible. Apply 228/1, Office of this Paper.

TED, a qualified Assistant (commence May 29th); permanency; must be steady, reliable, and energetic, with good experience, and not afraid of work. Apply, stating age, to "Ligni" (228/4), Office of this Paper.

TED, at once, experienced Assistant until end of September. Send references and wages required to 229/21, Office of this Paper.

J. WARD, 1 High Street, St. Peter's, Broadstairs, has vacancy for Junior Assistant (male); neat, Dispenser; permanency; state age, height, experience, expected.

WHOLESALE.

40 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this and forwarded on payment of an additional charge of 1/.

QUALIFIED Assistant wanted for Ireland; one accustomed to laboratory work and good-class Dispensing. Apply H., 19 St. Dunstan's Hill, E.C. 3.

MISSION Representative wanted for London for first-class Toilet Goods and Ointments; must have sound connection with Chemists; 170 opened accounts will be handed over to him. Apply 6/169, Office of this Paper.

MISSION Representatives wanted for Eastern, Southern, and Southern Counties for first-class Toilet Goods and Ointments. Apply 6/170, Office of this Paper.

EXPORT Invoice Clerk required with thorough knowledge of Drug trade. Write, giving full particulars and salary required, to "A. N.," Allen & Hauburys, Ltd., Bethnal Green, E.

HARROGATE TABLET CO., LTD., Chatsworth Grove, Harrogate, are open to appoint Representatives on commission for London and South Coast and for Wales; they must have an established connection with Chemists, etc., and able to show a large turnover. Apply as above.

LONDON Traveller required shortly by a firm of Wholesale Druggists and Manufacturing Chemists, to call on Doctors and Chemists; previous experience useful, but not essential; good knowledge of the trade important, and gentlemanly appearance. Apply, giving full particulars and salary required, to 6/179, Office of this Paper.

REPRESENTATIVE, with connection amongst high-class Chemists, Hairdressers, and Stores in provinces, to sell a range of exclusive Powder Puffs on commission; goods are quite out of the common and sell on sight. Apply 227/35, Office of this Paper.

REQUIRED, by London Patent Medicine House, a male Clerk for invoice pricing. Apply P.C.B. (28/6), Office of this Paper.

TABLET Maker, all-round man, required for small plant; state experience, age, wages required. Apply 224/27, Office of this Paper.

TRAVELLER, with connection amongst Chemists and Stores, wanted, to carry non-competitive quick selling summer line on liberal commission terms; one with country and seaside connection preferred. Please state particulars and ground covered to Kennedy & Son, 159 Kingsland Road, London.

TWO EXCELLENT COMMISSION SIDE-LINES FOR DRUG TRADE TRAVELLERS.

Very well-known and 30 years' established London House can offer to gentlemen regularly calling on Wholesale and Retail Chemists and Stores, two exceptionally good things.

(1) An entirely novel summer-drink line, proved in last two summers to be a lightning seller and quick regular repeater (ready now), and a little later

(2) A well-known and 25 years' established "proprietary" now about to have increased advertising.

Exclusive territory and liberal commission to really sound men. Write for samples and particulars, and state (in strict confidence) age, ground worked, references, and present lines carried, to "Agencies," 77 Roycroft House, 96 Southwark Street, London, S.E. 1.

WANTED, by old-established Essence house, Representative for Scotland and North of England; one with knowledge of the mineral water trade; give references and salary required. John Stow & Co. (Hessle), Ltd., Hessle, E. Yorks.

WANTED, Representatives to carry profitable season's lines at 20 per cent. and 15 per cent. commission; well known and very quick sellers; no bulky samples; also sole selling or buying Agents for Scotland. Apply 228/6, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

BRITISH COLONY.—Wanted, a young qualified Pharmacist, with a view in due course to manage branch business. An unmarried man preferred. Eye-testing experience an advantage. Apply 5/155, Office of this Paper.

JOHANNESBURG.—Required, by an old-established firm, young, unmarried Pharmacists for good permanent positions; qualified preferred, but one unqualified also may be engaged; passage paid out; principal, who is now in England, will see applicants; good references essential. Full particulars to "Transvaal," c/o Tozer, Kemsley & Millbourn, Ltd., 84 Fenchurch Street, London.

SPAIN AND SPANISH AMERICA.—Traveller, young, single, preferably qualified, able to speak Spanish with reasonable fluency, required by London firm of Export Druggists; if unqualified, candidates should have had experience of Drug and Fine Chemical trade; British nationality preferred; progressive position for suitable man. Applications to be addressed to 5/158, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—Qualified Manager (33); 14 years' experience; live Salesman; accurate Dispenser and good Window-dressing; Photography; excellent references; now disengaged. Hey, 11 Clarence Road, Sparkhill, Birmingham.

A.A.A.—Assistant, qualified, 25, all-round experience, energetic, and thoroughly reliable, disengaged. "Statim," 18 Warwick Road, Welling, Kent.

A—JUNIOR (21); male; tall; energetic; all-round experience; Dispensing, Counter, Window-dressing, and Photography; moderate salary; good references; disengaged. L. Mills, 3 Croxsted Road, Dulwich, S.E. 21.

A FULLY experienced Chemist; Counter, Dispensing, Prescribing, etc.; qualified; London preferred. Apply 230/25, Office of this Paper.

A GOOD Dispenser and Counterman disengaged; London preferred; unqualified; 45. Fletcher, 11 Kingsdown Road, Holloway, N. 19.

A LADY Dispenser (Hall) desires post; two years' experience with Doctor. Apply 228/39, Office of this Paper.

AN experienced Assistant, elderly, requires part-time employment, mornings, evenings, week-ends; moderate. "Statim," 38a Broadway Parade, Crouch End, N. 8.

ACTIVE middle-aged Pharmacist; qualified; just disengaged; 12 years' references. Burn, 80 Blackpool Street, Burton-on-Trent.

ALL-ROUND unqualified (34), brisk, up-to-date methods, energetic, and first-class Window-dresser; has had entire charge; capable Salesman; last two situations 8 years; would manage Drug-stores; London or near. Apply 229/11, Office of this Paper.

AN experienced Dispenser (Hall); lady; Locum or permanent; experienced Hospital, Surgery (Bookkeeping); excellent testimonials; in London or near. Apply 230/30, Office of this Paper.

AS Assistant Dispenser; age 27; married; two years' experience as Assistant Dispenser and Dresser. Apply M.L. 75259/21, Office of this Paper.

AS Assistant (20), first part Minor; fluent French; West-End experience Counter, Dispensing, Photography, Optics; please mention salary. Allnutt, 38 Chatsworth Avenue, Merton Park, S.W. 20.

AS Locum, permanency; excellent experience; good references; disengaged; active, reliable; moderate salary. Chemist, 6 Eastbourne Terrace, Paddington.

AS Manager, Senior, or Locum; qualified; middle-aged; thoroughly experienced; well recommended; London or district preferred; disengaged June 4th. Furnival, 28 Melrose Avenue, Cricklewood.

AS Senior or Manager, thoroughly competent to take charge; West End and South Coast experience, highest references. Apply 229/30, Office of this Paper.

ASSISTANT; unqualified; 27; good Photographic experience, Dispensing, Counter, etc. B. Hodges, 124 Skipton Road, Colne, Lancashire.

ASSISTANT or Manager; age 36; single; educated Edinburgh University; thoroughly experienced; conversant with medical professions. Apply M.L. 97404, Office of this Paper.

ASSISTANT; 42; war service 15 months; 13 years' experience as Chemist's Assistant. Apply M.L. 8656/21, Office of this Paper.

ASSISTANT (35), single, unqualified, energetic, Locum or permanency; free; reasonable salary; experienced; some knowledge Photography. Apply 228/15, Office of this Paper.

ASSISTANT, 25, Part I. Minor, Welsh speaking, abstainer, all-round experience, reliable references; permanency desired. Apply 226/32, Office of this Paper.

ASSISTANT; 29; unqualified; single; 12 years' good-class experience; counter, Dispensing, and Photographic; disengaged. Apply 228/29, Office of this Paper.

ASSISTANT (28); tall; 13 years' varied experience; high-class Dispensing, quick Counter, Window, Photography; requires permanency or otherwise (or would manage good-class drug-store); please state salary. Apply 230/19, Office of this Paper.

ASSISTANT (23), unqualified, desires season engagement; Counter, Dispensing, Photography; North preferred. J. W. Coates, Myrtle Villa, Willington, Co. Durham.

ASSISTANT, unqualified; single; first-class London experience; London or suburbs. Jones, 15 Elvet Terrace, Bethesda, near Bangor, N. Wales.

ASSISTANT (31); unqualified; good Counter and Dispensing experience. E. Searle, 2 Carlisle Avenue, Plymouth.

CHEMIST (22); Honours (B.Sc., London); French and German six months' experience in Photographic Developers; excellent references; nominal salary. M.L. 54810, Office of this Paper.

DISENGAGED, qualified lady; well educated (London Matric); capable Dispenser; businesslike; willing to assist with clerical work and accounts; excellent references. Apply 227/1, Office of this Paper.

DISENGAGED; qualified; elderly; Locum or Manager; out of doors; moderate. Apply J. Allen, 17 Prince's Row, Wimbledon, S.W.

DISENGAGED; age 24; used to brisk Counter trade, Window-dressing, Photography, Developing, and Printing "Kruschen" (229/10), Office of this Paper.

DISENGAGED; thorough varied experience; recent local references; offers entertained; locum, otherwise. "Chemist," 79 Cecil Street, Manchester, S.

DISPENSER; age 26; single; qualified Dispenser; good experience; X-ray Operator and Electrician; General Medical and Chemical experience. Apply M.L. 50619, Office of this Paper.

DISPENSER and Bookkeeper (male) seeks post; Doctor's Institution; highest references; good experience; can speak French, and do translations if necessary. Apply "X," 37 East Street, High Wycombe.

DISPENSER, lady (Hall); seven years' experience Hospital Surgery (Bookkeeping); excellent testimonials. Miss Milla Rosary Villa, Station Road, Stone, Staffordshire.

DO you require a qualified man, who will take an interest in your business? First-class Salesmanship; smart appearance; good all-round experience; locum or permanency; disengaged. "Sapis," 34 Rectory Grove, Clapham, S.W. 4.

DOES anyone require a good all-round man? 12 years' experience; married; capable, energetic; any capacity; any language. "M.P.S.," 16 Rookery Road, Bournbrook, Birmingham.

HALL certificated lady, disengaged; permanency or Locum experience Doctor in institution. Apply "Carnbane," Cl Road, Cotham, Bristol.

IMEDIATELY.—Permanency or Locum; unqualified; tall; 3 years' best experience in all branches; highest references. "Statim," 26 Doughty Street, Holborn, W.C.

JUNIOR ASSISTANT, thorough knowledge Photographics, up to quick Counter trade, requires further Dispensing experience, London district or South. Apply 229/22, Office of this Paper.

JUNIOR Assistant (20), tall, passed Preliminary, requires position in busy modern establishment; W. or S.W. London preferred. F. P., 44 Lucien Road, Tooting Common, S.W. 17.

LADY Dispenser (Hall) requires post; Locum or permanency; knowledge of Bookkeeping, Bacteriology, Nursing. Apply to Mann, Clevedale, Warwick.

LADY, Hall certificate, five years' Retail experience, desires post. Apply Painter, "Tettenhall," Ramsgate Road, Brighton.

LADY Dispenser, Hall qualification, experienced, requires position as Locum, now and through summer months; dressings; bookkeeping if required; good testimonials. Apply 224/26, Office of this Paper.

LADY Dispenser (Hall), experienced, Shorthand-Typist, Bookkeeping, knowledge Nursing, requires post with Doctor's Institution. Apply 229/12, Office of this Paper.

LOCUM or Manager; qualified; 45; good all-round experience and references; West-End or City. "W. S.," 163 Ebury Road, Tooting.

LOCUM or Manager, qualified; first-class all-round experience; London or provinces; just disengaged. "Chemist," 67 St. Road, Erdington, Birmingham.

LOCUM, London Manager for last 22 years to 2 firms, now available for temporary appointment till June 17. Milligan, 41 ville Gardens, W. 11.

LOCUM, Management (unqualified), good Dispensing, Counting, Surgical, Medical, Hospital Appliance Fitter. "Prescriber," 122 Scott-Ellis Gardens, N.W. 8.

LOCUM (26), qualified, free June 12th. Wilson, 109 Haverhill Road, Finsbury Park, N. 4.

LOCUM, qualified; 25 years' first-class experience; first-class references; June, 3rd-12th July, inclusive. Parker, 8 Trinity Place, Hastings.

LOCUM; over 30 years' wide experience; qualified; disengaged; through altered dates, June 12th to July 1st; moderate terms; exceptional references. M. Smith, 6 Durban Road, Southwick, Birmingham.

M.P.S. (28); tall; all-round experience; London district; "Capable," 41 Thornton Road, Thornton Heath.

MANAGER or Senior (53); qualified; intimate knowledge of all branches; Dispensing, Retail, and Photography; excellent testimonials. Styra, 230/28, Office of this Paper.

MANAGER, qualified, experienced, energetic (55), highest testimonials for ability, disengaged first week in June. Chemist, Villa, Hereford.

MANAGER or Locum, disengaged June 3rd; Prescriber, Dispenser, Dentistry; energetic; qualified; good references. Aubrey Road, Small Heath, Birmingham.

ART-TIME; unqualified (28); West-End Dispensing, brisk Store Retail, Photography, Prescribing duties; all day urday. Apply 228/17, Office of this Paper.

ART-TIME; qualified; London district; excellent references. "G." 230/9, Office of this Paper.

UALIFIED seeks position as Assistant or Branch Manager; 23; six years' West-End experience. Apply M.L. 1445/22, Office of this Paper.

UALIFIED, successful manager of business in main London thoroughfare, owing to disposal will shortly be free; young, energetic and tall; thoroughly trained and recommended. Apply 1/11, Office of this Paper.

UALIFIED; 32; single; 17 years' all-round experience; excellent references. "Chemist," 3 Hartington Avenue, Birkenhead.

UALIFIED; all-round experience; energetic and capable; Locum, part time, or permanency; Manager or Assistant; Manchester, district preferred; last situation eight years. Chemist, 22 Sherwood Street, Fallowfield, Manchester.

UALIFIED Locum or Manager; widower, no encumbrance; good all-round experience; 20 years successful Manager; don or provinces. B. Kilvert, 37 Islip Street, Kentish Town, don.

UALIFIED, Manager, Assistant, Locum; all-round experience Photography, Counter, Dispensing, little French. Broad-4, 87 Mornington Road, Leytonstone.

UALIFIED; 23; reliable; keen; well recommended; £4 4s. Write 229/17, Office of this Paper.

UALIFIED Chemist, open to Locum work or permanent position; references, etc. Kissell, 74 Hamilton Road, Weymouth, N.W. 11.

POTCH lady Pharmacist desires re-engagement; seven years' first-class varied experience; excellent references; England Scotland. Apply 227/10, Office of this Paper.

TUATION wanted by experienced man as Dispenser in Doctor's Surgery or large Dispensing business. Innes, 2 Ferndale Rd, Weymouth.

HART Pharmacist, 14 years as Manager, requires permanency or Locum, Assistant or Manager; good Dispenser, Salesman, Prescriber; modern business methods; disengaged. Thomas, S.S., Killinghall, near Harrogate.

UDENT, Part 2, desires part-time work, London, in high-class Pharmacy, immediately; excellent references. Apply 1/9, Office of this Paper.

EMPORARY engagement required immediately by Assistant (23), unqualified; good Dispenser and Salesman; knowledge Photography; excellent references. Thompson, 64 Percy Road, Hitley Bay.

NQUALIFIED, gentleman, 38, desires temporary berth (4 to 8 weeks) seaside, Wales preferred, Lancs or Cheshire, to enable him to give invalid son a change ordered by doctor; sturdy; reference present firm; abstainer; capable taking charge; expert Window-dresser, Counterman; £3 weekly; offers. Apply 229/34, Office of this Paper.

NQUALIFIED lady Dispenser would like an appointment with doctor; understands Panel, Bookkeeping; end of June; don preferred; testimonials. Apply 230/11, Office of this Paper.

OUNG lady, unqualified, 4½ years' experience Dispensing, Photography, temporary work during holidays or permanency. Bockham, Princes Avenue, Droitwich.

OUNG Lady; seven years' General experience, Counter, Dispensing; season or permanent. Apply 229/8, Office of this Paper.

OUNG Lady (Minor) requires Counter experience; £1 10s. weekly; Locum or permanency; Stockport or Manchester district; good Hospital experience; reliable references. Apply 1/30, Office of this Paper.

3 WEEKLY or offer; Manager or Locum; elderly qualified Pharmacist; good experience and excellent Prescriber. Baker, c/o Cooper's Restaurant, 277 Holloway Road, N. 7.

WHOLESALE.

for 18 words or less; 6d. for every additional 10 words or less, prepaid.

BERTH wanted with Progressive House, giving scope for expert practical knowledge of Window Display and General Publicity by gentleman; age 36; experienced all branches of the trade. Apply 230/33, Office of this Paper.

S Forewoman to take entire charge of girls; fully capable; used to packing by machinery and hand; good references. Apply P.C.B. 28/30, Office of this Paper.

CHEMISTS' and Druggists' Engineer; Erecting, Maintenance, Repairs, Alterations; experienced Tablet Compressing Machinery; highest references. "Ferrum Redact" (229/39), Office of this Paper.

ENTHUSIAST, 24, requires post with a reputable house as Salesman, to represent all Southern Counties (with car); highest references. Apply 228/5, Office of this Paper.

EXPERIENCED Representative, good connection London and District, open to take up good lines on a satisfactory commission basis. P.C.B., 29/21, Office of this Paper.

EX-SERVICE; 22; good theoretical knowledge of Chemistry; one year's practical experience in chemical factories; educated Secondary School, University of Wales. Apply M.L. 7238/21, Office of this Paper.

LABORATORY.—Nearly 40 years Laboratory Foreman; what offers? Pratt, 70 Thornlaw Road, West Norwood.

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